

cgctgcacct ccgggctctg aataagttct acgagcactg gctcctggac cagttcttct 480
 ccgtatatatt catcctggat caagatgctg tgattatcta tgagttggtg tgttttgagg 540
 acttcggcac tggtaggaga tgacatctct gttggaccag gtgctcacag aagcaatcga 600
 agtaggataa ttgggagaag tatgtgtgcg ttcgaggaag gagcgtaaaa caggttgagg 660
 aatcgcaagc gccatttagt catacagcaa caggggcagt gctacgagca aggggcatta 720
 aacggctcaa tacgggcttg gcgtttgaga cttttcactt tatgcatgtg ttgcttatag 780
 ctcgccggcc tgcaagccaa ctgcaccacc ggcaatgcta cctactgtcg ttttgagcac 840
 tgagaatgat ccaaattggac cagtttcaaa ccgtcattgg gtacctagag gcctcaaggg 900
 aggtaaaaat gcagagaatt gtccatctgc cgtcgtgcag caaatgctg acgtcgcccc 960
 agaagtcctc cagtgtgcca agaataatta atgtgtctta tggacgcctg gatcaagcct 1020
 cagcaggttg atattaccag gcatgtgcat tattctgcaa cgccaagatc ttgaggatcg 1080
 tcagcgccaa gcttagcaaa tcagcatctt ctactcgta tatacgaccc ccataacatg 1140
 tggtgccatg tccaatcaac ctccagcaga cttattttc tgcataaaac gttgcatcag 1200
 tagaacctac atctgcatct tcaactttttc tgcaattgca gtccaatatt gtactgcttt 1260
 ggttgctcga tccacctctg atcaacaacc ctatccacac gtagcactgg gccttctgca 1320
 catagagcaa ccaactaact gtcctcatgc ctgccgagtt ctagctggca tatcgctcatc 1380
 tgtctcacta cccctctttt aatgttgac aaacacgttc ctcgctccga ttttttatgt 1440
 ttttttgtgt ctggagctct tctccaagct tctgtcagct atgttatttg accacgccat 1500
 tgatactaga gctttgattg actgggtttc aagttactcc tcttttctga ctcaagtcaa 1560
 caagcaagcc ctttttttat agctcttgct gttggcgctt acttgcttgc ctagccaaac 1620
 ggcttgtagc ctataacgcc aagctttcca ccatcatcat ctctgctttc tctggtagat 1680
 cggtcgtctt tccaattttt gcgcagctaa ccgttacaga ctattaatcc atgtcagatt 1740
 agtagtttgc tgagctagcc catattttgg ctgctttgaa attaaacat ctatacaacg 1800
 acagttttaa ctaaattaaa atatgtctga tctgtacct tgtccatgag ctctctttcc 1860
 cctttagttt tggcctgggt agtagtatac ttgcctggac acatctctta caatgctttt 1920
 tatccagtag attctctaga aagatcacia gtttgttcat gttctgtctt tatcttgtct 1980
 gcatattttt cgggctgacc ttctatatat tatcaaatat aacctttatt agcagcatgc 2040

cagctacagt taggccggca gtctaatttt gtgaatatatt aatccctgct gattgaaggc 2100
taagtacagg ctaaactaag tgttcaatac aggaaagaaa aagaagttaa gaaataacctg 2160
ttttataacg ctagcaagag cctgccagga aacctttata aaaaatatcg ttaaaatacc 2220
tatggctttt ttccttctat aagtactgta atatggcaag taatactgta ctaggactag 2280
tactgctaac atggtaatag tcttcattct gaagtcttga tcctgactca caacatccac 2340
tcccgccatc ctctcagcct gcttctactc agatactgca ggcagttcag caaacaactt 2400
tgccatgtag ctaaatagat actgcccttc aaataaacia ctgccaaactt tccgagtgtt 2460
acggatcctg ttgggactca atatccagga tcgggagcct cagatgagcg atcaaaatct 2520
caaacccttc tctgagagat actacatcag gaaccaacgt gcttagccgc cgctttcaga 2580
tcaggctcct acatgatatt gttattaggt tacatccgta tgaccccaaca aatgtattca 2640
gaactatggg agtcgccgcc ctggacgac ccatggtttt agtcttgtct cgcattattc 2700
caccacttcg ttccttatac gttagctcta cgtgatatcg gcaccccttag ctgtttaaca 2760
ggttgacctg ccctgaccaa gtagatcctt aacaaggagc tgagggccaa ctttgatgtc 2820
ctgcgcacca atgccaacac taacccaaag ataagcctgg caatggccct ggtacttccg 2880
gtggccgcga tgccccaga aatcctgaca tacctaaggt gcccaattacc aagcttccgt 2940
tctagccgcg aaactctgac gttgccgctc ttgccggcaa ttggaaagcg gatgagattg 3000
gtacttctac catgatctga aggatgacgt ggcagttaac aagaggaaca tcacttcccc 3060
ctccaactat ataccatgt accaatatat aatgaattat tcacatgtct aaccaagccc 3120
aattattggc gggctggagc ggggtccggc cggggttttg tgggcgggtt taaccagtct 3180
aatcaagacc tatgtacagt cacacacacg gtacaggctc actgctacat gtggctgcgg 3240
gcctcgcata agtctagcac ttacgtacag gctcatgttt tctccttcca ggctattggt 3300
acagcaccag acccgagcc acgttagggg gtgcagactg ccagctacgc taaaggcgct 3360
gctggggagt accttttcgt tccgtacata tataggcac ttctatgtat actttctaac 3420
tgtataaggg atagcgggtat gcacagtaat aaataatata acattcattc aactctggtt 3480
aagtatgcta tatgaaatta ggtaagatct acacttgctg agacattctc cccagcgga 3540
ctcagtgtca ctatcataat cgggctctta catgttgctt tgacagcctt gccccggctc 3600
aatacggttt ccgaagattg agcgtctggg ttatcgccat cctcgctttt caccattgtc 3660

gttaacaatg actataaacg catatctgtc cacttatcga tcgaatgaac gaactgaaca 3720
 tcaggggtgtt ccgttcaaaa tctcgatcac agcggttcga agtacctggt cgattggagt 3780
 aacccttcgc cagctcgctg gtttcacaag gccttcggcg gcccaaccata ccatgtcgtg 3840
 tgcgcttggt cagtactgcc tcagccgact tcccatacaa caccttgaac aacttggaaa 3900
 tctcaagatt ccccttgaaa tacacgcagc cccgttccaa ttccttcaga aacaccacag 3960
 tgcatttggt ttcgattggg tggagagatt ggtctggaga acgcacgacc tgcacaagcc 4020
 ttacaattac ctccgaccgc aattactcct ggctcaggaa atagactccc agagacttgt 4080
 tgcaatcctt accattatgc ccggtgaaga ttatattcga cactatgcaa gcatggtaga 4140
 ggttgctcag catgacggtg caatattctc gaaccatgga ccaatccact gcgtactgta 4200
 ccctcacctc acgcagtcca tgatgacgtg gaccggactt acagaggctc tctgccaaca 4260
 ttgaacctgg agacgttgta gttctcggtt tcgtggcgga gctgctttca cgttttgcct 4320
 ctcttgtaac tacatctcga atgatctggc gacaagactc gcagtattac ggtctggtcc 4380
 ggctcgagct tcatccgggg ctcgtgttca gtctcgtagg cgccaagtac agctactggg 4440
 gcaatctagg tgggcggtt gtcacggagc ttgccgctcg caggccacgg gccatatgtt 4500
 atattgctaa gcagggcaca ctgctctccc ctgacgatat tcaactgccga atctactcac 4560
 ccacaagata ctgcgtcttt gacaaaggca aggctgctg gcatggagac gatcacccag 4620
 ccttaccaat taaccactc tcatccagat ctccaacctt tgatcgaggt ctgcatgttt 4680
 cgactccac aatcgctgag caggatgtgg agttaagaac acaactgggg gcccatggcg 4740
 ctgcgtccat tgacaacgaa ctggcgcgaga tggcaagagc actcacagac atgcacgaag 4800
 agaacccttc catgtctcga attcaattgc tgcccatcat gttctgtact gactaccttc 4860
 gacgtccaga agagttggga atgtcagtgc cattcgatct gacatcgcgg aatcaaaccg 4920
 tgcaacgcgg caaggaactc ttcctggcca gggccgccc tttggttcta gaagcattcg 4980
 atgttatcca gcgtccgaag gccattatag tcgggacagg atatggtgtt aagaccatac 5040
 tcccagcttt gcaaaggcgc ggagttgaaa tcgttggtt atgcggtggg cataaccgtg 5100
 ctaagaccga gaccgtcgcg aaaaaacata agattccatg cattgatctc tctctgaaag 5160
 aattgcaagc atgccacggc gccaatgtgc tcttcgttgc ttctccgcac gacaaacatg 5220
 ctgccctcgt ccaagaggcc ctcgatctcg gcggcttcga cataatatgc gagaagcccc 5280

ttgccctcga catgacaacg atgcgacatt tggtcgatca atcgctacgc tcttctcage 5340
 tgtgcttgat caaccacgct cttegettct acccgccgct cattcatttg aagggtgcct 5400
 caaaagaacc ggccaacatt ttgaccattg acattcggtg cttgaccagg cggcttgcca 5460
 agctcactca ttggaactct tgctttctcca agtctgccgg agggggcatg atgctggcga 5520
 tggccactca tttccttgat ctcatogaat ggtttacaga ttatccactc acccatgact 5580
 cgatggaaac cattaccacg tcaaaactga ttgctcctct gccgaccgaa gacgcgcaaa 5640
 tcacaaagac tcccaatgtc gagtcggcgt tcgagattag tggctactgt cggtcgtcca 5700
 cgaaatactc tgtcgaatgt gatggggctg cagacaccga actcttttct gtcaccatcc 5760
 accttgcgaa tgaaaatgag cttegggtta tccagcaaaa gggaaggcct gtaatgctgg 5820
 aacaacgtca ctcaggccgg gaatgggtgc ctttgaaggt gcatttgga cagcgcgttc 5880
 gagatggctc tccgtggcag gtatcctttc agtactttgt ggaagaattg gtggaggcta 5940
 tctgcatggg caagagggtc gcatttgccg acaaatccac tggctttgat gactattcta 6000
 gacaagtgg agtcttcgga tccaggggtg gcatatactg atgcactata tccggtatct 6060
 cggctagtca tggacgacga atagaagtca attgtgcttg aggccttcgc aacgttatga 6120
 aacgtctcag tgttgtgtag tagcattggc aagcagctgc ctctgggccg cagcaggaca 6180
 gacagctgtc gagctggtga aagagaagaa tcaatagggt cattccgaaa gtagtggaga 6240
 gccacatacg tgctacacaa caccatttct atgaaccatg attctgtgag agaattaaga 6300
 tatttggggg ggggttctg attgttaagc cctcccttc 6339

<210> 3408
 <211> 623
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3408

gtcattcctc gtgacgcgat acccatcaga tcctgaaagc caataaagcc tcccaagcag 60
 gccaaagactc tcatacctat tataaaaaaa atagcttttt gctatatgca aatcctaaga 120
 ttgggggattt tccagcatta agcaggattt ttagcgtgtc gtacggaaat ataaagggcc 180
 ttctgccgcc cttttctgag tgctggtggt tcaatacact gctagcgcta atgttttggg 240
 agtagggcgg tgcaacacac tgtcatatgt ttattggtga aggcgatttc aagagcgact 300

ctatcgtgct atgtctatct aatattttaa ttcagagccg gtcaatctct gcacatacgg 360
 cgtccactac atcctgtgtc ttcgcgtttc ctcccaaadc cgctgtaagg atgccagcct 420
 cacagactcg ctcaacacag cccatcagct tatctgctgc atctttctct cccagccaag 480
 agagcatctc agcggaggac cagaacgtag cactggggtt cgcaactccc ttgcccgtga 540
 tatcaaatgc actgacatgc accggttcaa atagcgacgg attcttctct gtaggggtcaa 600
 gattactgct tgggccacgc cga 623

<210> 3409
 <211> 1675
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3409

cgagatcatc gcggactgcg ctttatggcc gcttgggcca ccggttcact atctgcacct 60
 catccaggct ctagcggccc atgggtctac tatttcactg ttctccaaac cattgggtctg 120
 gctgcctctt caattttacg attgttgccg tcgccgccat ttcttaccgg ctgcatcatg 180
 ctccagaggt gataaggtac ttttgcttcc aaaagcaaga tggctgccgc atctcgctccg 240
 ttcgattacc tcgaaagcct ccccggaact gtctttttca agctatacca gcagccgtcc 300
 accgctctcg ctatcttcag gcgcatgctg cctgacctgg gtatgtatat tatgtggtcg 360
 gcgattcact tcgatctcgg ttaatctcac acatatgacg gtagcaaaat gcttcgttat 420
 ggcgcttctc tatttgaagg atccgcttcc agcagcggac ctggaaactt gggtcagatc 480
 tgagagcctg aggtgagtct cctctcaatc tgggtgtctgc gttctttgaa aggctaacag 540
 gttatctttc cttagagagc gggatagtgc gctatcaata ctggcaagggt tacatattct 600
 cacgaatgcg accaaaaaag gttccgtccg cgcttacatg gtcaccgatc ctttcgctgc 660
 atccctccga caagcactca cgggtgcgaa agaaaccag tcctttgggt gcttcaccac 720
 ataccggacg accagactgt tcccattcac gatcttgatg agtacgcgcg ccgacagtgg 780
 gaggggtgtc tcggctacat ggttggaacc agtgggctag ggattcaacg cgatgtgaat 840
 ttgagcaaag gcgtgaagca gcttctgcaa gccggacatc tgggtggagat cagggatcgc 900
 cgtgttgaga taactcaaga tgggttcgca ttcgtctccc aggatgtggg cacgcaggtc 960
 tggcatatct tgattcttta cgtcgaaagt gctgaggcca tcgggatgga tagcgtcgaa 1020

gtgctgtctt tcatattcct cctcagtagc ttggaactgg gcaaataccta cgaaaagaag 1080
 cacttgacat cgaatcacgt ccgcactcta accgatttag cagactttgg tattgtctat 1140
 caggattctc ctgagggcag ccattttctac cctactcgtc ttgcaaccac tcttacgtcc 1200
 gactcaagcg ccctcagcaa ccccatctct ggcgactct ccgatccgga cggcggggat 1260
 tccaaccaac cgggttctgg attcattatc attgaaacga attatcgact ttacgcttac 1320
 acttcttcgc cgcttcagat ttcgcttatt gcgctcttca cgacactcaa gtaccgcttc 1380
 cctaacctgg tcacgggaaa agtgaccgg cagtctatcc gccgggcgat tgaaatgggc 1440
 atcacagccg atcaaattat ctcttacctt gctaccacg cacaccgca gatgcgcaaa 1500
 cacaatgtcg ctgcctcgac atccaaccag gctggaatgc caccgtcagt ccttcacca 1560
 acagtgttg accagatccg tctttggcag ctggagcgtg accgtgtcaa agctacgagc 1620
 tggatttctg ttcaaggatt ttgtcagcct tgccgagtac gaggctcggg gtcga 1675

<210> 3410
 <211> 489
 <212> DNA
 <213> Aspergillus nidulans

<400> 3410

ttttacgggg ggaagacggg gggcccattc cctcaaccat ctcttgcag agatccatca 60
 tctgcgcaaa tggcttgggg tcacgcccc gaataaagcc aaaatctgcg gggaagaagc 120
 gcccgctccg cgcaaggaga agattctcga gatgcctgtc accgacgccg aggaggtatg 180
 taatcacgca gtagccggcg caggatttga tgtaggtacc catagactcc ctgcggacgc 240
 cgagaggctc gctttcatcc ggattaccgg ctacgaggca ggcaagcact gatttgaatt 300
 tggcggaaac ggcgataga gaggttgacg ggataaaccg cattgcacct gctgaggcct 360
 cggtagctag gatgccgcat ggcgcgagcc ttagggctaa gccctccttc tgaaggaggc 420
 ggtccctaag gaagataaac cgaacgacaa gccgaacctg gcgaaaaacg ccgccgactt 480
 gaaaagaac 489

<210> 3411
 <211> 1668
 <212> DNA
 <213> Aspergillus nidulans

<400> 3411

cagcatccga gcttgacgta gccctcggtc tttagaacaa agtagccgta ttagtgcata 60
ctcgggggttg tcaaggtttag acatctacag tgcgggttgcc acttcaaata gcatgtccac 120
caccagtgcc tgggtgacgaa gtctggcagc atataacagt ttagacttaa cgtcgtcggc 180
gaaattgcga ggtgggtata atatgaagcg ttcgatcggt atgccaataa atgaattgtt 240
aaagtctttc gacgcatccg agggactcgc taaactctga aggaaagggt tgatcgagtt 300
cgcgagaata gcatcagcta agcgtaacat gtcaattagt gcattccatg tgagcatcat 360
ataggcagct tacctttcac gcgcaagtcg gacttattcg cggctcttga tgtcaaggcc 420
agggaaacct tgacgatagg gtcaagcttg aaatgatcca ggaaggtaga aagatcgaaa 480
tcacgaaaaa tattgccttc tgacgcatcg acagtctccg ctatcttttg ggctggttca 540
atgtcctgcg aaaccttttg catctcctga actaaaagtg ggtagtttct tgcattctca 600
acggacatgt gcagcccaga aaagatttgg ggcgattgc ccgtaagcag gcgtcggaaa 660
tacttcgaga agacctccat tccgttcgac tcaacgagct attgaagtat aagtatcatg 720
tgactaatat cttgtacagg ttaagcactt accttgtgga tttgggcagc ttttgtctcc 780
cacttctcgc ggccctcttt ctccgtaatt gaatctaaca gcaggaatac ctgagcaatc 840
gatattttcg ccaatgatga ctgacttccg tgagccgcta cggaccccg tttgtcggga 900
ggaaatccgg tcggtgaatt cacggttgtg ccggacagca gcggagagaa ggttgcgctt 960
ctggaagaac ccgtcccgc tccacctccc ccggagcctc cgccaccgc tacggatcct 1020
gctgcggaag ccagatgcga ccctgaggat ggggtatgag ctctgatttt gggagaagag 1080
agagattggc tgggtagcga ctgggggttg tgcgagccag attggtacga ggcaaagggt 1140
cctggagtgg aggctggtga aggtacgccc cgaccaagcg gatgaccctt tgaggagctc 1200
aagacggcgg agaacgagga cgtaagagga gatgaagttg aaaccccg accagggtc 1260
ttactctgag gttgcccgcg gccagaaaca gaggggttcg aaaggtagt cgcaagcgg 1320
gtcaaccccc gacgaacact cgactgacg accggcgagc ccagggaga ttgctgtgac 1380
cgtgtaggcc tggtcgagga agatttatcg gtgccagaag caatcgacga ttgggaggaa 1440
gggggagggg gagggagggt catctaggag acgcgatcat ttgatctgag gttgctggt 1500
aaatattatg tgcgatgatg gtagtcaaaa agacagacgc cagatgtttg cctaattgag 1560

ggttctggca agacagagaa accttgcggt ggggggaggt gagattgatg gcaatgatcg 1620
 aggatgtgtt gcttgtggca gagaagttcg gtagtcaatg gcacagaa 1668

<210> 3412
 <211> 842
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3412

acgggaacac ggtaccatgt gtactttccc ttatctgacg cccatactat gcgactatgc 60
 atcctcttta cagctggatc ctttaccgac tgccttttatt cttgcccacc ccgagattgc 120
 acctttctgc ttgacgtatg aagggttgcca tgtgatgaac cctgcaaggt tcatacccgga 180
 aggcggctta tccactatga cgagggttga atacgataca atgaagaatc gaggtcgagt 240
 gaaagaggac cgtttctagc cgatagaaac cttgagaatg ataacttttag gttgccaaac 300
 gggacccta gtaatacctt cataatgtat agaactgaag agaatgccga acggtgtgta 360
 gaagctgcag cggacgttta caaagcgtag atgctggggg aaggcgcgcc cttatgtgac 420
 ttttacgggg agactatcaa taatcatctc tgtcttcgag tgggaatatg cagtagccca 480
 atatgtagtg gaactgctaa tgcattccatt aaaatacaca attgtaacct ccaggcgcta 540
 ttactcaag tcaaagtcgc taaacgcaaa aggactgttg ctccattgta gacatataaa 600
 tggagagaaa acaaggtgcc actttttgta catcattaaa aaccgtgccga agaaggccaa 660
 taatcgatcg ggatgaccat ccgcttttgc caggcaagac ccgcttttct gtttgtaaaa 720
 ttctattgac aaaaccttcc cggcataatta aaccggtttc actgcttttt tagggcttat 780
 agcaggggaac tggttttag cgggcggggc ctttttgag ggtcttgttt tccacacttt 840
 tt 842

<210> 3413
 <211> 5133
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3413

acaccggcaa gaacgacaag gtggttgatc agtatgcctt ccctagtccc agcgagttca 60
 aaaaccggtt ctacgtcgca ggtggtggcg gttactcgct gtctagcgat gctaccggcg 120

gacttcagta cggtgccgtg tccggcgcta ccgatgctgg gtacgacgca ttgactact 180
cgttcgacga agttgttctc tacggcaatg ggagcatcaa ctgggacgct acatacatgt 240
tctcatacca ggctcttggc gaaatgacca agcttggaag agccctgact cgcggtttct 300
acggcaagtc gtccgacgct aaggtgtaca cttactacga gggatgctcc gacgggtggcc 360
gtgagggat gagccaagtt cagcggtagc gagacgaata tgatgggtgct atcaccgggtg 420
ccccggcttt ccgtcactcg cagcagcaag tcaaccatct tttcccagcg gaggttgagt 480
atacccttga ctactacca ccccccctgtg agctcgccaa gattgtcaac gcgaccatcg 540
aggcttgtga cccgcttgat ggacgtactg acgggtgtaat ctcccgtacg gatctctgca 600
tgctgaactt cgacctttcc tctgttatcg gagagtcgta ttactgcgct gagcagaact 660
acacctccct cggcttcggc ttcagcaagc gcgccgatgg aagcacaacc agctaccagc 720
ctgcccagaa tggcactgtt agtaaggagg gtgtcgtgtg tgcgcaggct atctataacg 780
gtttgcacag caccagcggc gaacgtgctt acctctctg gcagattggg tctgagctct 840
ctgacgctga taccacctac aactctgaca ccggaaagtg ggagcttact attcagtcaa 900
ctggaggcgt cttcgtggcc aagatgggtg agcttcttca attggacaac ctcgagagcc 960
tggaacacac cacctacgac actctgatcc agtggatgga gaccggtatg gtccggtact 1020
tggactccct gcagaccact ctccccgacc ttaccacctt ccagagcagc gggggtaagc 1080
ttcttacta ccacggcgaa tccgacctt cagtccccgc tgcgagctcg gtccactact 1140
ggcaggcggg gcgcagtatc atgtactcag acgtttcata caagaagagc cttgaggaaa 1200
tgcaggactg gtaccagttt tatcttatcc ccggtgctgc ccactgcggt tcaaactcct 1260
tgcagcccg cccctacca gagaataaca tggaaatcat gatcgactgg gtcgagaatg 1320
gtgtcaagcc atctcgtctc aatgccacgg tcagctccgg tacctatgaa ggtgagactc 1380
agatgctctg ccagtggccc aagcgcccc tgtggaagga taacagcgac gacttcgagt 1440
gtgtgagcga tgcgaagtcg atcgagactt ggacctactc tttcccagcc ttcaagggtgc 1500
ctgtttacta aacagtgtc gtaacgtatt tcacaagcga gcagtgcaca caagaaagtg 1560
gtacacctcc atattccaaa tgaactggtg tcttttcaca ctcggatatc tcaacaagtc 1620
agtttcgaga tgtataagta tatatttagt ctatttaggt agcatctatt taggcattag 1680
agattttgtc ctgctttaa atctatctga gtattattga ttatgatata tttctggtat 1740

aaaaagacgc cattttatat ggaatacggg ggtgcaccac tgcgttgat gcgctgctcg 1800
 cttgtgaaat acgttaagat tgcgttgacg tcaggaaatg cgaaaatccg tctcattgtc 1860
 aatatacac gtcgaacgtg tacttttagta taacaagctt atatccttat acataaaaga 1920
 tatgtatata tctcagtagt cggaatgtat tcgcagtctc tctcgcacac cgtgcggact 1980
 gctcaacaga tctcgtatat tcattgctaa cggcactgta ttcggaaagc caaatacttt 2040
 agaagcacgc gtgaaataaa tgaataaatt gtcgaatatt aacctatagt ttggatgcag 2100
 tgtaataga gagttagtgc taggtacatt tctgatgatt ttagtccggg agtggccagt 2160
 ttatattcat atagcacctt aactgtaata ctaagatgac aaatgcagtc atagtatttc 2220
 tattacctac aatgctagag gcaacgtgta tctactatga agtcgggttac atgcctatca 2280
 ttctatacac aactagccgg gatgaatgtt ggcaatcctg tctagatcga ccacgcaagc 2340
 aggaactacg gagaaattac ctgacacctac cctaattgtg ggcagagtac gtcttgccgc 2400
 ccccgatgat ttattctgag tagatttact caggatctga tctgatcgc ttcccacatc 2460
 tctctcagc tagaaactcg gttttccggg tctctcttag tagctctaata cagcggtaga 2520
 tcatgacctg tccgggacctg ttagagtcag tctgttcagc cctggattgt ggtgagtatg 2580
 ggagaatgtt gatcgtttcg ttatgggcca aaacggaaag ctatgttttag cggcgggctt 2640
 catgaaatcg agatattggg atagccccgc aacagtcca cgaacagggg atccgactcg 2700
 actaattgag gataactaaa atctccagac cagtagtact ccattctgtt gtcagacagg 2760
 caattatcac gtcttcacag cctatgttga agtgtatata gacagggtaa tagtagcgat 2820
 ctacagatga gtaaaccgga aaatgttcgt agcatgaaga gcttcctgcc atcacttttg 2880
 aagagatatc caaacaatcc ttcaatacca attcaaacc cttcttagtc gatccccatt 2940
 actcgtctca gttggagaat agagtccagg catatgatga aatctcaca acattatagc 3000
 ctaataagac gagtctatgc agaataagta ttggcagttg acccggtggg tgccaagaa 3060
 cccgcgcgga ttaacgggtt gggatgggt cttgcctcg acatccacgg cttttgtcat 3120
 agtccact cagccagaaa gggctaacac tctggatagt tacgttctgg ctaataact 3180
 tgctgcata tatttagcag tagatctgga atatacagtt actcccggtg atatttctct 3240
 gaagattgat tagagcctgg ggcagatacc acgcatatt ctacatagtg atcgagttct 3300
 ttaaaccag ctagtgaaat gtgaaactta cagctggaga cacttacaaa gtcaaactgg 3360

taattgaatg acaatgttca ggcgatgggc gggtaagatt ggcccactct cccttcactc 3420
 ggcccagtgg tttgctcagc ttactagaac cagtaatata gtgtaaccgt taatgaaggc 3480
 tgtacctatg catagagctt tcgccggccg agtagaaaga aaatgttaag taacaagccc 3540
 aagaaaatag gtgtactcga ttggtgacag caaaaccaag ccaatcacgc atcagcagtc 3600
 aacaatcgat gccgggtctg acttctgaga cagccggccg ggccctagcat ctcttgGCCA 3660
 cattgattaa tctgtggctt ccttagtgag agtccattgc cgattatagt gcgtatcact 3720
 gtgacttatt tctactcaaa tcataagccg tcctaggagt gttggaacta tgagcagagt 3780
 ccctgttcca caaaggagaa gagaaaggct gtaatccctg atagcatcag ctctataacg 3840
 ggctgaactg gaagcacgct tttccagttt gtatattata tgcgttggtg aactgaagga 3900
 ttgccgctat cacaaggttg cagcgctaac aggcgggcac ctaatctgga ccccggtcgc 3960
 ttaccagggt atataaacca gcggtacgtg ttgacagtag tattttactc aaataatctg 4020
 aaatccctgc acttatcatc atgagcccag aactctttca tttcaactcc aaacgtcttg 4080
 tctaccgagc tcccaggttt aacgaagcgg acaagagggt cattcacagc cagatcgtca 4140
 atgatccac cgttcaaaca atgagcagcg aacgcctgaa acggcccgtg cctgaaaaag 4200
 ccgctgaaga ttttctcaag ttgattcaag actcattgtt gggggtgata atctgcctgc 4260
 ctgcttccga caaggattca aaccctgtgc ctatcgGCCA cttgaacgtc ttccgcactt 4320
 ccccttctca caccgatcat caccgtgcg cttccctcgg gatttcgctt gcgcctgaat 4380
 ataggggtca agggtagcgc ggagaggcca ttaattgggc tctggattgg gcatttcagc 4440
 acgcaggcct gcaccgggtt aatctacagg ctttttcgta caacaaaat gcgctgaagc 4500
 tgtacaggaa gctgggattc gtggaggagg gaagagagcg cgaatgtatt tatcagtatc 4560
 gagcatggca tgacattgtt tcattttcga tgttgaaca cgagtgggag ttgctgagaa 4620
 actcaaatca atgaatgcaa attcgtcatt ctctcaaat ggccatggtt tctttgttgt 4680
 gaggtcagc tgcactccta tacatcgtc tatacaactt agaccggggc ttacagccta 4740
 tgttttcttt ttcttttctt ttcttttttt ttttcaactc aaacaactgc tccgtagaaa 4800
 atacaagctg tcgaacacat ttcatatgac attgccgcct tctaggtcag atagagggca 4860
 ccgagataaa ggctctccta gaatgtactc tagccctccc ttgacacaaa gtgatcataa 4920
 gctccctcgc aactttaaat atctcatca tccaacactg tccccaaacta taaccaagga 4980

tatctctgca gcaggtaacc gcctatcctg aaaaggatat aaatgtacct tgacattatt 5040
 gtaaacaatca accatTTTTTT ttaggagaag aataatatat agattcgcat cagttatggt 5100
 attagtgcaa gaatagccaa ttcattataa atc 5133

<210> 3414
 <211> 963
 <212> DNA
 <213> Aspergillus nidulans

<400> 3414
 aaagcacccc aatccccggt tttttttttt gggccccttt aaaagtcata ggtcaatcca 60
 gattccagta gtgaccgtta atcctggcca acctctcgga tttccaagga gcggggatag 120
 ctttaacaac caaggcttac cgggaaacta cttaccgccc tatttagggt accgtaataa 180
 tccctccgat tgagtttgggt cgagtatgct aaaaaagacg aaagggcttc atgcgtatga 240
 aagccaattt aaacctttga gtggtttatt gcgacaggaa ttaagaaagg actcagcctg 300
 agtgtccatt ggccaagaaa ggtgctgtca aagcgccagg gccttgaaca agtagttagg 360
 gcttttttgg gcctgtgata atggtcaatt ctgataagat cctcatcgga aaaaatgaat 420
 cacctgtgca agaaaaccaa agtccaatag actaaccgct gcagagaaac gctctgattc 480
 gtcaaatcag atttgtttat ccgcttggat tatattaata gctggcatct gaagctaatag 540
 caccattgtc actgcgcggg ccagtcatag cgcagcccta agcgcgggtc tcagcacgag 600
 aatagatcca ttgtcctccc ccgctcgga tcggcaagtc ctgaagaatc cattttttaga 660
 atttgtgaat gtacctgcag atatgctggg ttcttaatta tggcatttcc atgtcaggtc 720
 tgctggcaca atcattgggt tgacttcccg ctgggaagat tgtgccagcg agagagttga 780
 tgttgagtca gggttgtctt gtaaaggagt agattgggcc tggctgtttt attaactttt 840
 attttctctc gtcccagcga ttgactatta tcatcgccca ggttttctga gactgaatgt 900
 gatccaattt gagatcggtg ctccaagaca agtggaaaag ctggagactt tgactatatg 960
 ctc 963

<210> 3415
 <211> 1454
 <212> DNA
 <213> Aspergillus nidulans

<400> 3415

ttttacatca aatgtggcat ccatgatgaa aagtgtggt tcccggcaac aacggtctgc 60
aagtgttgcg ggaccctagc cttgccaacc cccttgggaa atctttacca gagggaatcc 120
aatccagttg accccgggtt ttggaccact caactctttg attgtaggta gacggctttg 180
agcagtccat aaccccggtc gtgtcgccat ggtagctccc tttgaggccg agaatgttga 240
tctgttcttt gcttgcattc cagccatacc ggtcgacgc agcgcggagg cccatcttga 300
gagctacctc catacctgtg ctgccattgt ctgtatagaa gaccttctgt aggcgaggggt 360
tatccacagt cttcaagagc gattccgcca acgccaagc cggctcatga atgttcccgg 420
ggaacattta catgcccgtg acgtcctgcg gcatacgag cagatagagc aaggccggga 480
tttccgtgac cgagtccctg tgtccaccac gatgcggatc cgtcgaaagt ggcttggagt 540
ctgtcttgtt gtgccgaacg atccgcagtc acgtaagtct ggaagaaatc atcgatgagc 600
gaatcgatgg gagtgatata ctttgccgcc atgccgtggt gctgcgtaaa tggataccag 660
attgtcttct gtgctcggtt tgccatctcg tcgaggtatt cgacacgctg cttgtttttc 720
aaaacaagct catctaggag cgagaccaca tccgtgcttt ttgtaactga gctgtaatac 780
ttgtccaacg cttccagatc gcgagctcgc gagtcgggggt cttgctcttg cggacgccga 840
ggcgggtgcag gcaccgggac aagcgggatg ctcttgcccc ggaagtagtt cccaagtagc 900
tcatgattct gatagtagtc atccttaaata agaaggacgg agtggccatc ttttccgcgg 960
gcaagagaga ctgctatgag gatataagag atgagattcc cccaagacgg gagtgagcga 1020
ccaagatgat gggcaaccga agaggctcgt agaggctcggc ctgggagttc ccattggggc 1080
ccggcgagtg aacaccaccg gccgtttcta ccagagcgaa cccgactccg tcgttggccc 1140
agtcggaaaag ggtcctgtgg acagaggaaa ggatctcgtc atctcgagga atctgtcgag 1200
gttagtgtgt gcttatgttg gcctaacaaa aatacatgaa ctggacccta cacgaatata 1260
tagatgaatg ctgcttaacc tatatagaca atgtgcttgg ctataccaat gaggacctct 1320
gccagtaccg taagcacata tgaatagtct tgaagaaact ggaagaagca ggcctatatt 1380
tggatataag aagtgcgaat ttgagtgcaa ggagacaaaa tacttgggct ttttaataca 1440
ggcgggaggg gatc 1454

<210> 3416

<211> 1487
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3416

```
ccagaactga gtcctttgac cgccgtttct gattgttcga gagacaaaag agcctcattt 60
ccaagcttcg agtgcggcct caggcattta ggcccaaaag tatttacctg aaggggctta 120
gcgcttaaag cacctggtat ggactactct taagcctaac agtgccacca atagacctga 180
athtagaaat ctaagaaatt taacgctctc gattctctg acccgagcg gtggtctatt 240
ccaacaggtc tcagctcttt ctaacagctg tcccgcccaa gttgcgaacg tctctcgtaa 300
acggggaaga tgccgccttg gccaacctg agcgagtata cagtatgatt ggaacctcag 360
ggtcgacctc gtataaccgg aagcacggcc gatgctggca tttcggccag acgaaattga 420
caatctcgga tcctgtctca ctcttgata tcgatttggga agatggacgc gcggcggcgg 480
cgattttccg acggtcgttg gtgacagttt aggctaacc gctttcggat ggctcagctt 540
gcggggatat gatgacatac gtcagcttca acgttctca gcgactgtac tattgtcttc 600
cctagtcttg acccctgcgg aaccacatcc gactggcacg atgagcgggt tcaaaggcat 660
tatgaaggat ggatggcacc caaaaggccg ggaggggaga aaagagagct ggcggaacga 720
tttcaagggc gtcaaccagg tggtagtgct ttcggcttgc cgcacacagt acgtttactc 780
taacacttta taggcaggat ggatgggtaa aggaaaagac cctaaggatg aggataggga 840
aatcacgtt tcccgccgc tctcatcgct caaagacca tcttccttcg gtcctccgcc 900
tatgcatatt aaataccacg gcgctgctgc actcccaaac gaaaccacgc cggatcgag 960
cggatcgggt gcgcccttga gccgggaaca gatcaataac tcgtataccc gaaaacagca 1020
ggaagaggag gaggaacgga gaaaggcgga ggaagctgcy aaacggcctc cagtgccata 1080
tcgcgcaaac cgaacaggaa tcgatccgag cactcttcca ccaccacccg tccggcggac 1140
tggttcagtc gcagaatcag cgccggcttc tgcaggccct aggccgttac caagtgttcc 1200
gccccgtgta ccaccccgga caaacaccat cacaccagcc ttccatacgc ctttcccttc 1260
cgctacacc cccaatcccg aaggggcaga acagtctagg gccgcagatg actacttgaa 1320
tcaagccgca acttgctct gggcaggccc gggatatctg tcggcgctgg cattagtggg 1380
ccggcttcaa cccgacctgg cgcaccgagt acagtcaagc tcgggtcaaga gcttaagacc 1440
```

gatttttcaga tgggacaaat tgggtctccc gtggctggca tttcgca 1487

<210> 3417
 <211> 563
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 3417

tctcattgca ttatcctcga ccctccctgc aagcttgtcc aatcaatcaa tgaacaacca 60
 tctgaaaata tcatcacgct cgcatttttc tgcggcgcgcg ataccggccg aaatgacccc 120
 cattccggtc cacacggaac aatgcggagc ctctgtggccc aactcctcga gtcacatcct 180
 gggttcgacc tccagacagt gcggaggata gcgcagctcc gtggaggcga tgtccatggt 240
 ctatgcgaga tcttccatga gctcgtcgct caacttccgg ccgatgttgt ggtattctgt 300
 gtcgtggacg gggtgaccgt gttcgaagag cggatggggc taagagaaag tggggaggaa 360
 gtagtcaagg cgctgggtgcg gactgttcaa gaatgcaccc agaagaagcc cgttggggaa 420
 aagagtgtgt tcaagctatt attgactagt tccaggaata gtcggcggct gtggagggtg 480
 attccagggtg aagtggaaga tgtagtttgg atgccggatg ccgtgccctc gttgggcggc 540
 ttacggtag gcaagtggna cac 563

<210> 3418
 <211> 1310
 <212> DNA
 <213> Aspergillus nidulans

<400> 3418

atcattacta gtcaaaaaaa agtactgaca gaagtgtcgc ataaaagtgc tctgccgcag 60
 aagtgaacgg gcttcgggac caactgaaaa gaatcgaaga ttcaatgaaa gacggcaact 120
 tcgttgacgc caacgggaat gtactagata accaggaaga agtcaaattg cttctgcaac 180
 ggtgttggcg ctggactgag atagtgtctg aacggtctgt caccgcgtag ccggagcttt 240
 cagtcgtcta gctaacctga gaatagttag ggtaaaattg atgagagatt tcgagaacag 300
 tatgagcgac tactcgatat tcgaaaccag ctggatcggc tctctgtcac acaagcgtgg 360
 tctctccgag aaacagatct gttcgtttac caacgtaaac ttgaccgaat tgatgaagca 420
 agggtaaattg gcaactttgt cgacgtgag ggaaagccag cagatcttca tgcacagcgg 480

gtaggcgtca tatatcatgt ttatgtgggt accggagctg actagggaaa ttgccttttag 540
 actctcctct acttgattcg gagaagctat gcgtacattt agcgcacgct taatgtcctc 600
 agagcctgac tcagaagcac tatgaccctg atgcagtcag ctccaaacac tgcggtgctg 660
 tctgctagag gacaaagaaa ccggtgggtg atccaactcg cgcgaaactct atccatatag 720
 tatgagggtg agcacgctca actttctcgt cacatccaac caccactaa cacgaataag 780
 ctcaattcaa ttgacaacat gcgcttgac ggtaaatcct acatagtcga tgacatcccc 840
 gagggacaag gtggagtga cgccttgctt gccgaatgct acgacctagt ttgggaattg 900
 cgggccgcgg tggcggaaga caaggagtaa tcgacatacc tacgcacggt ctcactattc 960
 taatgctttc tctattcctg ctgtgtcttc tgtttctctt cttccatgta tgaacgattt 1020
 ggaattggga ggcttgcttt gatatgggtt tggtttgcca atggcgtttt aattagggtgc 1080
 catattaatg tgaatctgtg aacttgcatc gtaatgatgt cccatgccac tgattagata 1140
 catggcaata ccataggtag gtgtagtctt ttgtagaagg cgatgctatc ttctaagtcc 1200
 ttggcggcag ctgaacattt aaagcagccc aatgaacacc gccggatagg tataagacgg 1260
 gaagtatctc gcacataatt cattgggtcta gacatgtaat taacatgcta 1310

<210> 3419
 <211> 865
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3419

cccagagcta tgggtctgct agccgtattg gactgtaata actatggcag tgtgcatagt 60
 agactgggtc tgggtgctgct gccttatggc ctgagcacgc tcatgcggcg tatgtgctaa 120
 gcactaataa tgcaggagcc agacgagaaa gaagcccatg gcagtgcgcc gcgggccata 180
 tagagacca gcgtaatggc gctcgagacg ttagcacca gtctgcatgg gcgtgactcg 240
 caacggacag ttcgatccag gctatagact atctgtagac tgagcgacac agcgcccgt 300
 tacagtacgt tgaggatatg caaggaagtg acgaggctga tgtaatacca gcataatctc 360
 tggccttagc gaataagtct gatggctcat agttggatta atctcggatg tcctgcatgc 420
 gtcccgtgcc tgaattctgc caaccggaca ttgagtactc gtgtcgtgcg taagaagaac 480
 agcgccaacc ggaccctcac tgggtgctcct gcaaatgccc ctcgttcaca agagtcagaa 540

gccgcatgaa gccttcggcg cctttgccgg tctccgagcc atcctcacac tggccccgaa 600
 attttcgaac ctttcccagg cccctcttaa agcccttttc ctttgtccac ggcccatgac 660
 cgcgcgaggg tggttttcct cttgcaaaac ggcgtggtct atccttgtgc gccggtccct 720
 ctaccattg ttcctctaga gtagccttat agatgtctcg taattgatcg cggagaggcg 780
 ggtaacgtta aaaaggtcct taatctgtat cgacagtagc tgggggtgtca agtcttgtcc 840
 atccgcacag gctgtccttc ggacc 865

<210> 3420
 <211> 2690
 <212> DNA
 <213> Aspergillus nidulans

<400> 3420

ttttctctcc ccgcacgagc ttgcagagct gcacagctcc ctcttatgcc aaatgattca 60
 acgaccgtaa accttaccca gatttacatg aaacttaaga cggaaaataa accactacat 120
 gcttctggaa accgacactg ccttttaaac aagccctcaa tgtccccgtc atccccaatt 180
 tcgatacccc tctttgtga aaaccaacaa cagctcctcc taaaagagca cgaagccgaa 240
 gtctcctcat ctaaactcgc cagcaccgcg ttcgctgcgc cgtaacgcg ccgtactctc 300
 caagcgtctg gacacgcgct aaccggcata atcctttctc aatgccgcac tggctctcgga 360
 ggtcggctag tcggcgagtt tactgtgac gcggtatatt cgacggaagg tacgaagggg 420
 aaaggaaaagg acgatgatga tgcgaaatcg aacattgctg cgaatgggaa gctgaagctt 480
 ggtacgcatg ggattagagt tggggatgtc gtgagggtca acgaggtggt gagtgtctggg 540
 aaaaaagctg tagggtcagg gaaggacaag aagaaagatg gggattcggc aaagggccca 600
 gaggggtgtc tgacgagggg cggggagagt agcgtgtggg tagcttttgg gcagaacggc 660
 ggcggcggcc gttcaaagga ggaggatgaa gaagttattg aggagcttta tgggaaaaag 720
 ctttggtgtg atgttttctc tctgtgcgca gttggtggca aaaaaaacg attctacaaa 780
 acggcagagg gttggaggga agggagaaca atatgtcgga ctcatgggt gaccagagtg 840
 ttgtagtata aagctggcga atgatgtgac ttttagacgg tatgtcctcg gcaggcatga 900
 ttacgggtcg gcaacttggt gctgatttga ctttttcag gatgaaccaa acgatggaga 960
 agatggcgaa gatgtcggag tcagattaca cgcattttgt acgagttgcc ttcgggcata 1020

caacaccagt ccagccggac tatgaggcgg ctgggcccgt tgaattcata gacccgacat 1080
tgaacgactc tcagaaggaa gcaattcagt tcgccttggc ctccagagac atcgccctca 1140
tacatggacc cccgggtaca ggcaagacgc aactctaat cgagttgata attcaaattg 1200
tcaaaaggaa cctccgagtg cttgtttgcg ggccatcaaa catatctgtg gataacatag 1260
tggaagact ggctccgagc aagatcccgg tcgtgcgcat tggccaccct gcccgcttgc 1320
tgccatcggg gctagatcac tcgctggagg tcttgacca gacatccgac gctgcggcta 1380
tcgtcagga cgtgcggaaa gagattgatg agaagcatgc tagcatcagg aagacaaggt 1440
ttggcagaga gaagcgcgcg atctaccagg atatcagaga gctacgccgg gagtttagag 1500
agcgtgaatc caagtgcgtg gacaatttag tccgcggaag cagcgttgta cttgcgacac 1560
tacacggagc aggcgggcat cagctgaaaa accagaaatt tgatgtcgta attattgatg 1620
aggctagtca ggcactagaa gcccattgct ggattccact gctgtcagcg ccaaaggctc 1680
tccttgctgg tgatcatctg cagctcccgc ctactgtcaa gtccaccct cataaaacaa 1740
aggaggcagg cgaagatgga gagcaggatg caaacggaag cttctccctc gagaaaacac 1800
tatttgatcg gctgctatca ttgcatgggc cgggaataaa acgcatgctg acaacgcagt 1860
atcggatgca tgaaaatata atgcgggttc cgtcagatga gctgtacgaa tccaagctca 1920
ttgcagctga gagcgtcaaa tctcgccctc taaaggatct gccttacaat gtccacgaga 1980
ctgatgacac taaagagccg gtggtcttct gggacacgca aggaggagac ttcccggaga 2040
aagttgacga tgaggaattc gcaaaaaagg aaagcctgct cgggtgaaagc aagagtaacg 2100
agatggaagc cttggtggtt gcgaggcacg tggataactt ggtacaagcc ggtgttaggc 2160
ctgaagacat tgctgtcatc actccataca acggccagtt ggctgtgcta tcacagatgc 2220
tacgggaaaa gtaccagac ctggaattag ggagtgtcga tggattccag ggccgcgaaa 2280
aagaggctgt tgtggtgtaag ctcgttcgca gtaacagtga acacgaagtt gggtttctgg 2340
gagaaaagcg gcgtttgaac ggtatgcctc ctgccataa ctcttactac cttgagttag 2400
gtctgacgcg attccagtgg ctatgactcg gcccaaacga cactttgtgt ttgtggagct 2460
tcgggaccat acaaggaaaag ttgtttttgg cttacgccta gttgatttgg tttgatacct 2520
gctgaaacga cgttgctttt cccgacgggg agatgatttt taaacatggt gtgccttttg 2580
aaaaactcga ttctgctttc taaccgaga gctgtttaag tatttccttt ttttccctcc 2640

ggttttgccca cttccctgat gatgaatttc tacttaattt cgttttcttt 2690

<210> 3421
 <211> 568
 <212> DNA
 <213> Aspergillus nidulans

<400> 3421

ctagaatata tatatggatt cactaacgct ggaaagatcc cgagccaaga aatggacgcg 60
 tacttactga tatccgcccc gtgcgtgggg atactgatag tttcagaaca cacagccgat 120
 tacggaaaac ggtggtaata aaaccagctg acccagtacg agtcagacct tgtataggag 180
 gttttccaat tggaagtcac gccggcgggc ttcagcgcca ttcagcaatc acgaccctga 240
 agcagtctgt ccaattggcg cagtcttggc cgggtcaaagc tcgttagctc ccagcaagag 300
 gagctagcaa gccatatcga tgatccttgc tatctatcga ttatcaacag gtgtcatcgt 360
 gtggcaacgg tgcggggaag agatcgcagg caaaccagg ccattgaagc gaccactgat 420
 agactcggct taatctctc cgaggctggg cgccgtacca tgatggagcg tgagtctcct 480
 tcattttggt cttcagcttt gttctgcgag tctaccgaaa ccttcacgcy cggagacttc 540
 aactctggtt cggctctgtc gggtcacc 568

<210> 3422
 <211> 2629
 <212> DNA
 <213> Aspergillus nidulans

<400> 3422

tcacagtggc cgatctcttg ctttgagacg acgctcagac tcggaggagc cgccaatatc 60
 ctcgctcatt cgagtacgct gctcgtctt ccgctggcgg cgagcgagcc gcttctgttg 120
 attcttactg acgctacctg caccagaggc atcgtctgag atatcatcgg aagatgatgc 180
 agagtccga tcgcgcagaa aactgctcag aatatttcga cgaggcgacg atgttcgaga 240
 tgacgagcct tgccgggagc ttgaagggga cgggagattc tcttcagct tcggtttaat 300
 tttggataac gcccttttga tggacatttt gacagtctgc agagtacgca cttgaagagt 360
 gcatgcgatt gaggagggga acaaggatca ggaaaggcag aagcacaaaa aaattgaggg 420
 gcggaagtcg cgtcgggcct ggttggaaact taggaccctg aaaggaagtg gacggaaggg 480

tttgtaagtc ggttttgtca gctcgttgat tactcgaggt tgagtcaggg acaaagaaca 540
 ggaaggaacc aaataatact tatatgggag gtaacctgga agtatcgcgt ctcgtcagcc 600
 ttaaaccaaa accttgatag cccagttcca gggcgtgatg tcatcgtcta gggaaagaca 660
 catgaaggac ccggggccatg gtcggggacca tggcccatca atcaattgca gggcaaactct 720
 accggggggc catttgcgac agtgcgacat cattgcccgt cattatttac tatctaaaga 780
 ccatacctag gtaactacaa caatccttcg ttcttccaag gtccaggaca atcgtcgacc 840
 tcttatacca tagatcggct gtcattctccc cagaacagtg cccgagctgt ctcgggccctt 900
 tgggctgcgc tacacttgcc ttggcctcga ctgcaccctc aatttttccc tctcaciaaac 960
 aagctcgtc ttgttatttc cctcgattgc cttaatacat cctcctctcg caggagcgag 1020
 ttctatcgtc ttccaagttc tttcaccctg ggtgtggttt tctaaggcta atacagtaag 1080
 tcgaacttat ccgcccggct gcaagagacc gttcgaggtc ccttgcttat cctaggtacc 1140
 gggctctact acttgactct agttccgttg ctgctacatt ctatacggct gtccagctgc 1200
 atgaagttgc agtcatgacg acttcgcgct ggtggctata tgtccaggcg gtcttctggc 1260
 gttgtctgat gcgcctgggc atgatcttcc ataacattcc gcatccacgg cctccgagtc 1320
 catcgttctc gcgtctcttc ccgtccggct cgtcgaaagt ggttttaciaa ttctactgtc 1380
 caccgggtta ctctcagacc cgtaaggagg gccgtcggct gccggtggtc gtcaactttc 1440
 acggaggcgg atttacgtc ggaggtccgt cagacgactc cagatgggcg caggccgtct 1500
 tatccgaggt tggcgtgtc gtcgttagcg tgggctatcg ccgggcgccc gagcatccgt 1560
 ttcccgcgc ggtcgacgac ggagttctag ccctgcagta tctggccagt cacgcggtgg 1620
 agttaggcct ggatatctct cgtattgccc tcagcggatt ctccgccgga ggcaatctgg 1680
 ctgtaaccgt gcctctgcgt tttcgggata tgctgattca agcggaacac gagggctggc 1740
 tgagccgcgc tgactctact gtccagctgg tgtctccgac tgcgagtgc ttgcatattg 1800
 ttgcgtctt ctgctggtac ccaatcctcg actttgagga gcccgtgag catcgtcgtg 1860
 caatgagcat cgaacccaac aagacacttc cgtctttctt caciaacctc tttgacgaat 1920
 cctacctccc agatcttgag cagcgaaagt cgccgtatgc gtcgcctgtg catgccacag 1980
 acgacgcgt gcgcgattct ttgccccacg atatcttctt cttcatctgc gaatgggata 2040
 tgctgctaaa cgaaggccag ttgttttgcc gtcgactgca ggatatcaac aagcacgtgc 2100

gggcaatgat ggtcgagaag gcgcggcatg cttgggacaa gtcgccaat cccttccgca 2160
 ataccacgga agtgaacatt ctctataaag acgcttgtgc tgacatgaaa gcaatttttg 2220
 agaagtaaac tcttctcaag tccgtatttt caaatcacgt ccatggttat catttcgtat 2280
 tcttagactc tgggtgcaggc actatcaacg gcatggcggt taggttagat ggctctgata 2340
 ttggaacttc attgtacagt agtacttcca gctgcagatc accgaatatg attatttgct 2400
 gcggatctcc taagggtcaat tccctgttta ggaacattcg atggatcttc gtattcgacg 2460
 atgattctgc tcgttggatg aatgctacca gccgctcata tcttatggaa ggtaattacg 2520
 gactattatc acagtaataa tatcatatta tcgaaattga aatcatgata aatcattata 2580
 tatatttccg attttttttg ccgagcattt ctgaaatgat agtagtatg 2629

<210> 3423
 <211> 820
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3423
 atcaggatcc aaggccggtg tcggtggatt tcgccctcaa gttgttagcg gtccacactg 60
 tgtttcttgg accaccaact tgtcagggcg ggtgctttgt catttatgaa gagcccgcgg 120
 tacttcacac tcggtggggc ttgcttcggt gccttcggga gagcgtagat ggtggaatgc 180
 caggtggggg gtacgtctgt ccagcagcgg tacctgctct ctgattaatc ggttcggttg 240
 acgatagctt acaacgtggc cttacggtga ctgtccacac tgctctgcga gggatatatat 300
 cccatatacc actgcccttt atatgctgcc cgcgatgaca agcgcacctt ttcccttttg 360
 atagtccgtg acaaccgtcg tgcgaaacgt ctcccattgc ccccgacat ctgtcacgtt 420
 aagaagccct cttttctcaa ggtcctgcac tagccctgaa tcgactgttg ctgtataat 480
 ggccgttttt gtcgactcta gactcttggg tccgtatgcg tctacagcag agcgacgagg 540
 tcttcttccc gtatattctc gatattcatt gccaggcttt ctgtagcgat ttcgacggca 600
 acagggctct gagtatcata tagtattgcg gcattatgaa ttggaactgc tcctgcctgg 660
 ggatggaatg taacaatctg cttctctagg atagccaggc ttgttgtaac gagaacagct 720
 agaagacata caagggcaaa gggcaaagct gccatttttg tctatacagg agtaatctga 780
 cccaatttcc tcgggcgcaa ggatacccg aacctatat 820

<210> 3424
 <211> 679
 <212> DNA
 <213> Aspergillus nidulans

<400> 3424

```
gcgtgcttga aacttggtcg acagcccatt agaattcaga cctgcctcgt tggcactagc 60
tcgctggatt tagctcgtgt accctttctt accatttccc cccccggtg atcctggggg 120
tcgcaactca aacccgcaca aacaggggtca atgccggttt cactgatgtt tcttgcgggg 180
actgtttcag atatcgaggc taatcatata aattatttat agcggagaaa agtcccatct 240
ccaacacgca cgagtggcat cacactcgcg cccgctcaga aacccccacc tcatcgctcg 300
ctgaaaccgc gggcgggccg tttagtagtg ctctcgatac tggagtcaaa gggtagcgcg 360
tcgaccgcca tcccgcagac tcaaagccgt cgccaaatct ggcttctaata gcacagggtt 420
cacgatttgc ccggagcaat tcgcatccgg tgcgaccaca tacaccacct tcccggttaa 480
atccccagaa aacttcagcg gctggcgaat cgtcgccagg taaggaccaa acccgacagc 540
gtcttatcca atcggcctgg cgtaatagtg gcggctcgga tgctttcaat ggctctctgg 600
atatgccaga tgaatcgatg aaaacacgga gtaccccgtc aagccctgag agtaaggata 660
aggcatccac ggaagtccc 679
```

<210> 3425
 <211> 1588
 <212> DNA
 <213> Aspergillus nidulans

<400> 3425

```
gggagctcct agaacgaggt atattcataa gtccaaagtg ctgcccgtag agctgttggtg 60
gttcctggat cgcaagatac taatcctgtc caacatgac ttcgaccagt cgggccttta 120
gagaatcatc aagtctatgg ttcagcacat ccttcgcaag gagctctctc tggggctggc 180
gcagccggtc aagtataaag acatcaatcc gaaggactga aagatagctt acaagcatga 240
gcgtgatagt gcaaagcaaa agtaacatat caagctggtc aaagggtggtt ggagactcat 300
tgaaccactt gactcggcaa caaaagctca agccttcatt gacgaacacc tagagcctgg 360
ccgaacgggc tatgtagagc gacaacttgc actgttcctg gtaggtgtgt acagcagggt 420
```

taaaatgaac gacacggtga cggatgcgct ggcggataga ggtgttaagg atgaaaatat 480
 atactgagcc gctgcatcag cagacttaga ttttgaaacg acagctgcct cactagacgg 540
 gctgttccac cgaagccgac tcgaaaccgc tgaagccgtg tatagaccag atgttgtcat 600
 cgccacttgt aattgctaata cagaggaaat gggttggtgt atatttaaag aaaaaaagga 660
 actaagtaat cagccgcatac aatgccgatac acaggtgcgt gcgcaagatac ggcatctaaa 720
 tactcagcga tagtctccct gttagacagc cacttgcagc cattcttgtc tcagtattcg 780
 atgtagtcaa ctgaacttac aggaggcaga atacttgagt tacagcgttc actgaagtat 840
 ctgatccccct cgctagacag aaatttctat ccgttgtacc ttgctatgcc cttcagaatc 900
 aacttatcct agagcccctc tgctcttgtg cctgcccttt ctgatacact cactctttat 960
 tttgccgatt taaatagaat cacacctaca ccccatcttc tttctccacc aaaccaaccc 1020
 cagctcgtgt gcccttacga tccactttct tgagaccgct tatgacagga atatttcatac 1080
 cacctactgg agccgggttc aacagaatta tatgaccata aaggtagctt tttacacttg 1140
 aagaatgaaa gtccggctct gtaacctctt cgctcctgtc agtaaaggcc cttctgaacc 1200
 cttaccttta tatttccctc atactcagac tcttgttacc acccatgtca tagatacgta 1260
 attttgcgaa tataatctgg ctccccatt aaattccctt tcttttttcc ttcagtccac 1320
 ctctatccac tatectccct cttcgacttc ctctgcata ccttctttaa atctatattc 1380
 tcttacttcc cccactatct ataatccctc ctacttttc tcttacttcc acatcatcct 1440
 tcactacttc actctatatt tgccattttt tctttcttta ctcttccctc atttcttccct 1500
 ctccactcca cttctctttc ctctctccat ctacttaaa tctcttccac tccctttctt 1560
 ttctcccttc catctctttc tctttatt 1588

<210> 3426
 <211> 1344
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3426

tggatgcgtt agtgtcctct atgcttgagc attatctctc aataattcac tacatactca 60
 aacggtcttt atttgaagaa catgatcgtg tctaagctcg gcgaccctc aacatcggcc 120
 tcagtagcca gccaaaaata tctcatagag aattctcaaa gagggtgcaa gcgcgcacat 180

cgtctcttcg aatgccagca acgtcaccga agccaccgac actctacagg aagagcaccc 240
 ttctgcaaaa ttaccgacc atgtcttggg aattagtggg gatcatgcag agcaaaacct 300
 catcaagctt ttgaccaca tttttctcgc agaggacggc ttgctcacta tcaaactact 360
 gagtatcgat atctcctcca ttcatcaaac cggaaatctg ctctgttata cctatTTTTc 420
 aagcaaagct aggtctcttcg aacttccagg cacataatac cggataaaaag ctgtcactta 480
 tccctacaac tgcagtaatg ccgatagccg atactgaact agacactcaa acgcgtatat 540
 gactgctctg gatgggggcta taaagacctt gcaccagttt ttaccagttg ttaaactgtc 600
 aggaccaagt attgtcagtg cctgaacgca gcgaactcgt cgtgggggcta gccggggttc 660
 tcgaggatgt agacgacatt cgttgacggg caaggtagc acagtgcag aaattgcaga 720
 ggcgatatctt tatcatccaa tggaagatct gactgcgggtg gcctttgtgc caggacaaaa 780
 tcaacgtctg ctttgttgat cagtctacct ggaatttga tgggtggcttc gctgagaaaag 840
 ctgggtccata aaaactagaa tcacgatact ggaagagcta tcagctgcca cgaataataa 900
 aatgagagac aacacttctt tccgaatgga accctctaaa gtggtttcta agcgattcca 960
 aaggatatc cttgctctgc catgacggaa gtatactaac acggccactc ttgtactacc 1020
 taaccttgat tcgcccctga taggtagaca agtaaccttg tagcggacat ttcttcatgc 1080
 aagattgact gtaattgca cgtgatgaag gaagaaaatg ctgcatatta aaacgggggta 1140
 ccttatgcaa agaaatcagc ctctgataa cacctataag gaaagcccc tacctgccgt 1200
 ccttgaatgc aattcttcag tatgatgat catcctcta cattttccca taccttgtag 1260
 ttccccatct tcaccaatta tcttgctgta aaagtactct ctttccccag aagacaccct 1320
 cttctatcga ccttccaaat ttcc 1344

<210> 3427
 <211> 2081
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3427

ttctaccctg ttatccaaat cccccgcgc gtattggtct cttgtctcgg catcgagata 60
 ctgttgcaact tgagccatac gagagtatgc ttccgcacag aagcgcagtt gtatcttcac 120
 cagggcttca aagctggggg cgaggtacgg aacacgcaag tcaataagtt gaggaagttc 180

agtaaatagt tgttcattca gctgttcgta cgcttgcttg gccatctcga gttctcgcctc 240
 agtgcgaggc agcttcgtag cgtccttgct gggcttttcg accagtcgct tcactttggc 300
 cctcatggca tcgtaatcga gcagcttggt gtttctcttc ttgatgcact cgtaaacatc 360
 agggaagtat gcacagaagc gggatatcgg atcaagcacg gttgtcctag ggcattgtcag 420
 tcagcgacga aacactctgc gcagaaaaac gagaatcgta cctgtaagga ccatccagtg 480
 ctttgatggt ctccgcatcc aggtcttcga cagcctgttt gtagctcctg ctcacgccgt 540
 ctttggtccc ggcattcccg tagaaagcat ctatcgtttc cgcaatgcgc atctgcgaag 600
 ccgtcatggc tgagcgaaca atcagcacac cgaccgcaca tcaactcgct ttacaattgc 660
 cgtacctcgc aatgagtcca agtatccctt agcctccttc tgtaagcgat tcgcagcggc 720
 ctccatggct cggtatcgtc tgcattggga tcagtaaacc acagcccaca gccgccgcga 780
 atatcaagtt ttcataccgt tcttcaattt catagtcacg gtcgttcgtc ctttccacgt 840
 gccctatatt tgaggaggcg cagtatcagc atccgtccca ggtccaacgg gcgtatcctg 900
 ctccaactat atcggcctgt ctccgggttc catcgctacg gatgcggggc agactcgtct 960
 cagacatacc cgtcttcac ctcacctgcg tcgtagcgcg gttcacattt ttcttgaaac 1020
 ctgcagagag cacacatgtc agtgtgaatc tcgtaggggt cctgtaccgc gagtatgata 1080
 cgcacctgcc caagacatgt tgggacactg atctggatat caccgagaga gtaaggccaa 1140
 tcgtcaatgc cagaaaggaa aaactcgcga ggttttattg aagatacgag tatagagttc 1200
 aaagcttaaa tgatgagcga gtttgatttc aagaacggaa gggggagtcg attgaagcct 1260
 aatgcgggac cgacgatgat gatgtttcca gtcttaaagt tccctgttcc tcagtggctt 1320
 ggatgtggct gggtagatta cagctagtat agaaccgcca aatacagcca gattctgtgt 1380
 atacttgtag tagatcaaca gcctcaacac acacagctaa atcgaatttt tcttctagag 1440
 atcgttgaat aaagtagaaa gaagaagaaa agaattctctg gcgctcgtcc aattaatggc 1500
 tgccgatagg atggatgcag cccaagtgc taggcatac cagctatttt gtccacgacc 1560
 ttagcagtaa ctcatgttaa gtactaactt gtttctttta ttccaccctt ttggcgacta 1620
 ttcttgagcc gctatatttt gaaacgtaac taaagacata ttcatagatt gtgctatagc 1680
 cgcgaccaa taatgttttc gtaacagatg gaagagttct gctaggcgcg gctgcaagcg 1740
 ccataagcag agctaggcct ctcaaatgc gtgaatgcc gaccggacct ggcaagattg 1800

taacatcaga acgcactctt caagagttcc tggagggtag aatgtacact tgcaggcacg 1860
aaacaatgtg ctgcaatcac tgctatccgg aactcaatc acaaacata tttcaagatg 1920
agatgggcgg ctacgacgtt gcactttgta gccggcacag cagctcggc atcagtcacc 1980
ctgctaacaa tcgacatcat aaaatgatga cattggtgaa tgtgaagctc agttcattcc 2040
gccacgccac gaacatttcc ccgcatcca gctatagcca t 2081

<210> 3428
<211> 3041
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 3428

gcgctacaat aatgctgata tctattatac taatggggag cccatagatt tgacaagggg 60
gatacgacta gtgtgagagg gcccaagcac tcattcctgg tctatacctc caaatagtcc 120
aacagccttg tgaacagaaa gtctgtttcg ctgccagagg tctccatttt ctattcatac 180
cacgttttaa tcttctgaat ttcgtaactt gccctctcgc cgcgatcaat aatgtaccag 240
ctcgcccatc acggtagaac tagctggccc gaatttcgcg tccatgccat agttcgctgc 300
agcgaaatac ctactaccct gaagcccgag ctgggcgggc tagtcctcta gaaatggtct 360
cccctcgttg acctttcgct ggcccaggcg cctatacggg cctacatagc tgcgctgcaa 420
tgtttaagcg ccatcgctca ggtgggctat tgagttcaga ccaaagagat gatgcaattg 480
aatgtctgtc taatctangc aacggtgtat tcagcctagc acgatgccaa gaggatgcat 540
gtagcacat gccgagtata tattgacgca tgggtgtcag agcttcaccc gcattgactt 600
ttccgtaaaa gtaggcccag acctagaaaa aaaatgcaag gcaggagcaa tatttttttt 660
agttcactcc ttcttctctt ccagctcctc aaagcgtcta aggtccatag gcttctccaa 720
caacggaatg acgtagggat cgaaagtctt ccagtagggg ttgttcaagt ggtaggtctg 780
ggagccttcg ttgaggtagc gctcaacgat acagaagtcc tgcgggtcgt ggaccgactg 840
catgacgtgc caggaaaggg tctccttgct cttagagtag acggcggaag cttcctggag 900
cttggcggat agcttggaga tgctctcctg gtcgggcttg gccctcatgt ctgtggtgag 960
cggataagtt agctttgaag aaacgggagg agcgattacg cacggacgac gatagtgtag 1020

accatttttcg gtttataatg gtcgggtttat gaaatgataa acgctgataa tctagaggtc 1080
 gactcgagga gctgtctgcg actcaaagag agccctccg gagttctaag atagtcgcgt 1140
 ccggtggggt atacctacac aattacacat agattctgcc gtggatatta gtagctaaag 1200
 gtggagattt ctgcctataa aatcatacca ctgggccgag ataattctta cacagagtag 1260
 aggctagcaa ctaacttgcc tatacatctc tcaagaaatc tactgccagt tcttgcccg 1320
 ggcgctgaca tacgcgacga ctggggctag ggcaagtcca atcacggtgg acacccctct 1380
 aacaaagtca tatggtatcc tgatgggagg gtacttcgag tggtcgactt gactcattaa 1440
 aatcaggagg gagtgaaact cattgcgatt gggctgtatg ctatcgtagc ctgtttgaat 1500
 ctctacagc aagcccttag ctgctaatac aaccactgtc tcaccaatgt cgtaagtcgc 1560
 ttgtttctcc cgtaatctcc tcttcttct ttgttttct ctcataaata atctttgctg 1620
 caagctccag ggtatcgacg caatcgacgt ggatggagtg agaagactcg ctgcgctagt 1680
 ttcgtttcgt ctgtgcactc ttacatagag taatgagtc agtttcttga agaaaaatat 1740
 ctcgtcattc tccaattcga agcttggttc tttcaaatta tgaaatatga ctgctgtttc 1800
 gagaagtaga gtcgtgtttg tccagttccg aagcggccca ctgcacttta tcgtttcagt 1860
 ttcgagacac ttcgacgaga tgtacgcgaa tgtggcaca tcatcagagt cggcgagtat 1920
 tcgcgccccaa gagctctgct tttcacatgg tattttgaag cctcgtagga gatcatgttc 1980
 gtgaggccat gaaacaaaaa gataccttcc ttccctatcg attcccgtgt gttgaagcac 2040
 attgaacatc ttacgcaaaa tgcccaaggt atactggtac agttgaggag tgagcaacct 2100
 gaaccagtct ttaagattgc ctcccttgaa tgaatccaca atgttgtaat tcatcttgag 2160
 atcttcccat agttcttgct gctcattagt gtaggtagcg gtagcaaacy ttggcagcag 2220
 atcagccacc atctctcgga gggcgacacg gcgtgcaaca ctcgtgcaaa agctgacctg 2280
 aaggccccag aggtcatcca agaaaggat cagcatttca tcgtcttgct caagcttgga 2340
 ctgttttaga gttctgccat gcattttgca ccaaaccg ttgatctgat ataggacata 2400
 gttgccagcc tgaaaccag actgtctctg gttaagctcc caccatgttg gatacgtagc 2460
 caggggctca agaattgtgg atgacttggc ccagtattgg ttttcgtcaa tcgtgcagag 2520
 cccattgact gtaaccactg ctctatcac tactttgtga cgccgctccc acttgatagg 2580
 agaccactgt tcggccgcta catcttggtc ccagtggat tttcgaccgt cataagtaat 2640

gaaaccaccc cccaacctga tcgcgtacgg caggttgctc aagcgtcggg caatgacctg 2700
 tcccggaccc caggtatcaa gaatgtctc aatactcgcg agaagatcat gttttggccc 2760
 agttttttcg acagaatctt ttgtctccgc ggaacgaatc ctgaacgtga aaactggaga 2820
 ctgaatcatt tcaccatac aggtgagatt ggttaagctt gctatgatct catggtatcg 2880
 actgggagac acctcatttc ctgaaagcac ataagtagtt tgcagagtat ccaagaagaa 2940
 gaattgtatg ggccccatgt gcgcttgaaa gaacgataga aaacctaaag agaggaattg 3000
 aatcgctagg caacaagagg tttccctcaa taagcccga a 3041

<210> 3429
 <211> 1031
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3429
 tcaaatcctc atatactttg atcagtgggt cactcaaact cgacggctga ggggaatctc 60
 cccatgatca tcctagcttg tctgagactc aaaacatata gaataatccc gctatgcttc 120
 gagaatgtgg agctccaagc ccgcaaggcg caaaatgcga tgccactgca tgggtggtgcg 180
 cggtaccccg gaatactggg cgcttcggcat gtcggggggg agcttaaatg ccgggaatct 240
 gccctgtcgg aatcgaaccg ctagtccttc aagctaaggc gccgcgaaga atgcgagggg 300
 ctgacgggtga cccacatta gtcaggctga gtaacagtgg agagactcat ggacgtggag 360
 ggttgaggag agttcggaac tgatgtgact tgaaatttgc cgaagaataa acatgaattg 420
 gtgccttatg gtgacgctgg cagagaagtc gtagaaggat aggatttgat gtgttgggaa 480
 gcagcccatc actagcgcaa ggtcacgtgt aggggtatgc cttatactgt acgtagaaat 540
 gcagcggttt aaaggtgtta ttctgctcta tcctaattta acaagctgat cttccccgcc 600
 gtcaaggcaa acacaatggg caagtagact ccaattcctg cctccctcaa cgcttgagaa 660
 tgcgccactc tccgtctcgc cgcataccca gcctcggaat tttcccggca ctgcctact 720
 ggtccgaacg caaagcgctt ctccggattc caagggtcc tcccattcac aaatgcaatc 780
 caacgtctcc tcatatcctt acccaccgcg tcggcagatg gattgaagga cagatcaatg 840
 ccttcgaata ggaaaagcag gtcaacggcg tgggtgggac gtgcagacgc ttgccatggg 900
 ttgacctggt cgacaacgta cttgaaaacg cgtttgccgg cggcggccat cttgtccgag 960

atgagctcga ccggaagagt gtagcgtgcg tcgctgacca ggtcccaggg caccgagttt 1020
gcattgcttgc t 1031

<210> 3430
<211> 1086
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3430

gacagctacc ggctatatcc gattccatgt ccgctctcgt tactaggagt cccataacaa 60
acgacatgat cagctccgca tgagggtgaaa aaatgctact cagattctcg ctcaatcaga 120
actcttgccct tataagaaca tcaactagat ctccgtccgt tatttcattg tcttccaggg 180
aagactgggg gtccagtcga tctccatcaa aggccagata cagcactagt ccaggagaaa 240
tacttctcgc ttcacgaaat gctccgataa cctgggatat ggttggtgtc aacgggatct 300
gtatcttaaa atcatcgtgc cctggacact tgagtatgat ttcattttta gcattgctgtt 360
cgggtaccctc tgagtgaggg gacccgggtg attctggatc aacccaacc acgtttggtg 420
aaaatcgatg tctagctgcg tatatttctt cagtaacggc ttccatatat actcgacacg 480
catctgcacg gctgaaaaac ttgtcaaagg gtgatgcttc attggtataa gcaactgatat 540
tcaggctttt acaagntgtg acgtcaaata gtctgcggcc ttccaagtca aaaatactgt 600
cgggtgaaga atccttgggc tgggtcctggc gagcaaacca tgcaaggcgc acttctttca 660
aggactggga cattttgcgt tggataacaa ggggcttagt attggcgatt tctgacgtaa 720
tgagaatatg gacaactgtg tcatcataag cagtgtttcg gtcactacga gttatgcctg 780
gctcgtcccg cacccttggt cctttcaggc gaccctttgt atggacattt gcctccgggc 840
caatattcgt gactgaaggc gaggggtgtg actccgcccg catgtccagc attctgctct 900
tcggtgagtc tggggacggt ggggacgttg aaccttccgc gaccattgtt ggtacttcat 960
tggatatcga accttggcgt gccattggg gttcggtaat gctgatataa aaaatgttat 1020
gcccaaacgc aggttgcgaa ggcggagaat tcgcaacccc ggcgttctcg tctaattattc 1080
acctcg 1086

<210> 3431
<211> 2299

<212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3431

aacggtagtc cggaaatccg cactcgatat gatgaaacgg tatattgatg agcaagccgc 60
 tgcctagact gttttcttga aagcgtgac accttttaaa ggcaatagct cttgaagctc 120
 acatttcatg tatgccacat agatgcatgc agctggattc ccgcaactat aatggagatg 180
 tcggaaattg gcgtttgtta gcttatagcc atttttcacc caccaagaag aaatacgtca 240
 agaacatttg aaaatatagt agcatattga cagtcccgaa cgctctgag ataggagagc 300
 agatgtacta atacagtggc cagacaagtg tcttttcaca tccctactct cgccgtgaaa 360
 ctagatctct cacagcgtct aagacaccat aatacttctg ttccggagggc tacagagcgg 420
 aacgagctgc atcttgctcc gcaagaaccg gcttattgcc cgcttgcttc gctggccgct 480
 tcaatagcag catgacgctc tctccactcc ttgtcttctt tgtcccgaa ctccaactca 540
 cgcagccatg catctcgctt ttcttgacct tttcgtagct ctagcgctg ctccaattct 600
 ctacgctgcg ttccgtcagt tctgtagtac agtccaccgg caaccacggt aaggagagta 660
 agtccttggg cgtagatacg ggcaaggaa atgcggttca tctcaactga gtcgcccggc 720
 ttcatgtatc ggtaagcacg ccaaagcgca taacaggtgg cagcgcatcc taatagcccc 780
 actgtggtca gacatttcat gctgtttctt gccagcagtt ctactcacc agctggtacc 840
 catggctcct ccttgaaccg tcttccaaac ttctggagcg gagtctctc ctgaaattgt 900
 ctaaaagcga tagtcagaaa ctatacttcg gcgtcgctcc gtagatgggc gttgccgttt 960
 gcggggacgt actcgtggcc gtcgaacgac gatggcagag gttcgctcat aatgatctcc 1020
 tatcttgaaa tgaccgccgt agtattgagg acaagaattg caacaataat ttgggtaatt 1080
 aagattccct tactggctgt tagagtgata gaattacgca gtgacgtcgg ggagcgactg 1140
 gacatcatct ccggcagttc tggtaaatta caatatgtac cggttcttac aatacatatg 1200
 agacaaactt ttgccagatt cccgatgcta atcatagttc gaaatagaca accaaagcgc 1260
 taagggatgc ttacgcatat cacctaagaa cttgaaactc atgacatccc gtacgtacag 1320
 cgcctggccc tggacccggg cgaggaagag taagttccct ttttgggaag atagggctga 1380
 aacgcagggt tgatgacata accttcggcg ccgatcacgg aatttttcag actccgccaa 1440

agaagcaagt ccgattcgag tcataagccc ctctatatac ctttttaaac aaattgattc 1500
 ttgcaatata ccgtttctag tcttgaaatt gccagaggg cataactgaag cagaacacca 1560
 aacatgaccg agaacgcgtc catgaatggc gctgcgacac cactttcttc gaggttgagc 1620
 aatttggttc tgacggaata ctctgtatt ccgactccta cttcggagaa ggaagaatac 1680
 aaaggacccg acagtccacc cgcgtgggat atccctgatg ctttcttact tccaatggc 1740
 taccgggatg tgcgacatgt cctgtgtgcc tacccaaatac gttctaccgc taacaatcgt 1800
 tatctgcagt atcttaaact gattttgact tcccggtct acgagatcac taccgagtcc 1860
 cctctccacc atgcagtcaa tctcagtaac cgaatggaat gtcgagtgtc tctcaagcgg 1920
 gaagacctgc tacctgtatt cagcttcaaa ctccgcggag catacaaaa gatggctcat 1980
 ttgaccgacg agcagcgatg gaaaggcgtg attgcttgct cagcaggtaa gcaactcaaa 2040
 caagcggggc tctacagatc aggtctgat acatctatac tgtataggca atcatgctca 2100
 ggggtgtcgc tactctgenc gcaagctcaa aattcccgt accattgtca tgcctccggc 2160
 accccagcga tcaaactt gaatgtcgt cgccttggcg gtagtgttgc cttcatgga 2220
 aacgatttcg acgtgccaa agaagaagct caccgccggg aaaagcagca cggctctaca 2280
 agcattcccc cttcgatg 2299

<210> 3432
 <211> 981
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3432

gagacacagg gaggggtgct caaccagact gtcgggcccg gtacgcgtct tctgcaccac 60
 catcagctca tagtgcttag gatgtccgac ctggtttgcc cgtttgagct gtgatcgagg 120
 agatctcgat tgcgcgcttg tcactctccc attgacgtgg actcattttc agtctcgttg 180
 cggtcaccct ttgggttatg cttcgataga ggcacacat ctcattgaga ggcttcttgc 240
 gtgcattgtt tacacctttg ctgctctctc cggcaggtac tggccctccg cacagggggg 300
 ctgtcaacat ttgaggcaga gccgtatata actgcggtgg tgaagatgca tgcggctcta 360
 taccatccct gcccttacct ggaatgttcc gcagcccttt tgagcctaca tagaccctcg 420
 ttccaaggc ctatggtgac cggaccttcg aactgcacag gctcccgtta catgataaat 480

cccgtgaaat tatgacggcc atcatgcaca aaatccgaga aagcgcaagg tttcgtcgga 540
 gctcgaccct cgatgggggtg atgcgggccat ttcacgccc aacgaggggtt cctggagcca 600
 gtacggagcc tcagcaggga ccagcccgggt atccgccagc tcttctgac gcgatcatgg 660
 cccaagcac ggctctggag agtcgtctcg gccacatata atcagaggcg agcatgccag 720
 atctcgaaat gaggtccctg ttaattcatt gaacatgccg acaggatact acgactcgaa 780
 actcgagcgt caaaagacga aaccgcgcct cccgaaagcg cagcctgtcc agccaaaacc 840
 tatcactcta ccaaaatcct gggaaaagaa ggattttgaa gacgattcgg cgaacgaagc 900
 tggcgacaat gtttccacgc taaagtcaca gcggaggctc ggaagagatg atgcccactc 960
 tcgtggatcg gaatctcggc c 981

<210> 3433
 <211> 850
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3433
 gccctaagct ccatcacgaa ttcttgccctg taagcaaaca tcatccgatt cttctctaga 60
 gccaggcatc tctggctgct tggagccgat attgagctcg ctcttgctga gtgcccgaga 120
 cgcaagcacg ttggaaagta tgggaatgag cccaatcgt acccaggcct ctttcctttg 180
 atcatggcca attgtctcat tcttcagggc tctcagagca gcagcttggt atgacaagga 240
 atccgcattt tgtagctgga ggaagatagg cggcgccctg gcgcgagtca ttgtccggaa 300
 tcacgacctg ccggaagaac ccgaaagggt caataccagg attgtcaggt tatcttttat 360
 gagtccaagg gtgatttttag accaagagca gtaagtttgg tgatggggat gggcgtgggg 420
 ggatgatgcc gagccagatg cggagtgagt gtcgtcaacg gcagtactgc gattccggac 480
 tcgaggtcgg agcttacaaa gtacaattgg agtgaccgac agaacgagcc agtaggatta 540
 acgagtagag agactcatcg aaagacaagc atgtctatca tataaaaaac gccaaactgc 600
 gaaatcgagg gacagatagg agccacctgc actgagaatg gccagttcat tctgagcaga 660
 tcgagcgtca gagacgaagg gcaggcttgg caatcccgcg gtcgtcgctt gaccgctttc 720
 ggaaactcat catgtgacca tcacatgagc tcaagatgct gaactaccac gtgactcagc 780
 cttatgtatg tgcttgacgc tcaaaaattg ctcagcgcac gagcagttcg accgctcgag 840

aaccacccga

850

<210> 3434

<211> 625

<212> DNA

<213> *Aspergillus nidulans*

<400> 3434

catccctcgc gctagtcac gcaagcagtg acgcatcaaa aacgcaaact tatagaaagc 60

gtcatatttg cgggattttt tcaggaagat tcgatcactg aagtaagggt gcgttggtct 120

gcggtggagg gtctgcagga acttatacca cttcccttca aggaatcaga tagtatcata 180

tcattgtcata ttatagcaca ccctctgacg gatctgactt atatgagcct atattaaacg 240

aatatagatt aaatcataat aacggcggtat tcattgtgtg cgttggtataa agcgactaa 300

gtcctggcga caatcatcgc aactataccg caggcatctc gtgtcattcg ttggcttgaa 360

ggcgccaggc agcgcggggt atgtactatt tgggatagcg acattgacac aactaaatgt 420

ttatatctct aatctaaata tatggtatgg acctaatgag accgcccgcg cataatcatt 480

gcatgcaagt cgctgatcgt cgcgcttcca tcaagctgca ttaaatgaat attcaaacca 540

aagtttctct gaagatcaga ctgtagttct agggcagcga gcgagtcgag tcccagactt 600

gtgaagtgtg agcctgcacg taccc 625

<210> 3435

<211> 2678

<212> DNA

<213> *Aspergillus nidulans*

<400> 3435

gtagcgggg tggaatgtcg aaaatgtcaa atactaggaa gaaagatgct gcctcaagtc 60

gagttcacgg ggcacattgc aggaagatg tacaagaata ggggccgttt gtgcctgggg 120

acagatgtag ctgatcctgt tggcggcaga gacggatcga aactaggcgc ctagggggcg 180

agtacaccgg atttaatgtt ggaaaccgaa ttcggatggg tcagagtaga ggtttccagc 240

agaatggtaa tacgaggtcg ttttaggagt cggaattgag aaacgaggga gtcgaccagc 300

gaagtcgagg tgacaagaga gggagcgagc ggagtcgtag gtaggcacta gacaagaggc 360

accgcccagt ggggaacttt cagcagcact gttgcgctta cgacgtactt tgtactctta 420

gtagagcacc ttcggttcct aaaaaatatt tggcacttat ataattatat cataaagtgg 480
 aatgggcgtc gcgagaatat tttagacctt gttttatgtg ttttaatacgc ggggaagccc 540
 gaattggtcc atatataagg aactatatat cttaggtcagt gctcaagacc agtccatggg 600
 ggaatctgtt tgcactgcgt agaacaccat cccaccgtat gaaaacaaat cgagaatcag 660
 gcaacggtct tttcaaagcc atacaaatcc gtgaaaatcg ccctcagagc ctgccctgtc 720
 tttccttgcc ctactcaa atgacgtcacc tacctgtctc tcttctcata tagaataagc 780
 tccaggcagt atctttctgt tctcatccgc aaaccatcaa atactcatag caactgtact 840
 ctaaaccctc aaacacacac tacgatgcct gtccttcctg accccaagat ccctacttca 900
 ggcagcaaca gcgactcctc aacttctcag gaccagaaca acaaagccac cgctcaagat 960
 tttctctcca agggctctca gattcctgat agtgagcgat cctgcttcat tgattctaac 1020
 ccagcgatct aacgagctat agacatgccg cccaaagcat ctcgagaaga aatcgaagct 1080
 cgcataagga aactcaataa atgagtata cctatctgaa agatcctgag aagcagatat 1140
 cgaattggaa aactttgcgg catcgctatt agctgaaata gtccatttaa tcaaaaatgt 1200
 aatgattgta tgagggtctg cgggcacaca gatgtttcta ccttgatttc cctaaaagtc 1260
 accgtatttg ttaaccttac tacatgagca gtccagtatt cacaaaataa aatgaatctc 1320
 cctggctacg acattacaca ctctctcttt ttattaaaac aataaaagtc gctgaatggg 1380
 tgcgacagcc gatgaggctg tataaattgc atcataccac gtgacctcgt gctcgctctg 1440
 tgccctcagc cgcgaggaa actgctctcc tcgcgtaaag aggtccccga tgccgctga 1500
 acgacagaat gtgccggtga agctgtcctt gccattagta cgtttctggt accgtacatt 1560
 cttttccatc gtgatttctg ctaacagagt acgttgcagc aattccagca ggacatcttc 1620
 accgaactcc gcggcgaaga tgagctggtc atcctcgccc gtggcctagg cctcctccgc 1680
 ctgattacga acttgcttca cttctacgat gcagcaggga ataactctgt tctattagt 1740
 ggagcgaatg accgagagaa tgaatggatc ggcgagggtg tgtgcctcaa gcgataacc 1800
 atccagaagt acgccgctaa catggtagaa gccctggcgg agcattatgc aataagcaaa 1860
 acgcctcttg caaggggttt aaaggtcata aataccgaca gggctacagt gccgatgcgg 1920
 tgggtgcgct ttcattgggt atatgatggg gggctaattc ctctagggaa aacatatccg 1980
 tcgaaggcgg tattctgagt gtcacatcca ggatactagt cgtggatctt ttgtccagta 2040

tatccctcct cagtcgtccc cgatgtcaag ctgctgaccc gttcagagct acttgaccca 2100
gagaggggtga ctggattggg tgtactccat gctgacaagt aggccttgcc tcccggttgt 2160
cttggggccag ctgacttctg gtagaattgt cgcgacgtcg actgaagcat ttatcattcg 2220
aatctatcgc aatgccaaaca aaagtggctt tctgaaagcc ttctccgact cgccggaacc 2280
ttttactacg ggattcgcgc ccttagccaa ctctttgcgt aaccttttcc tacggaaagc 2340
ttcattatgg ccgcgggttcc acgttactgt tgctgaatcg ctggagggcc atcggaagc 2400
cgaagtaatc gagcttcgag gtcccatga gtgataaaat gcgagagata caaacgcgag 2460
ccctgagtgt ggtgagcttt tacttgggaa ctaagaaagc gaacacggat tagacatggc 2520
cattggaacc ttgatagcgc ttttgatgga gctttgacat tttcatagac gccagttgcc 2580
ctagtgcatt gtgtgagctt tagaccaaca aatggagcgt ttaaggacct cggcatacta 2640
aaaactacat gccatttaa agcattatct acacatag 2678

<210> 3436
<211> 704
<212> DNA
<213> *Aspergillus nidulans*

<400> 3436

gaggatacat ccaacatctc acgacaacgt tggcgaatcc tagcgccacc atgtgcctgg 60
tgttgctaac ttgcattgct ggcacacccc cgcttgagc gagagtgggt aggttgtgag 120
tgccggttga ctgaacaaa ccgagaattg cactgtgatg gaggaactgg tacagagtgg 180
ccatacaagg atctttgcgg ctgaaacggc cactcgaact tgtagacagc cattggctga 240
ggactcagga gaggataccg ctctagact ttgaccatgc catgggttat gacgacgtcg 300
gacggtggga tcagaccgat gggtatcagg cgagtggta cccctcgacc agcaacccca 360
cgtccactcc ctttaacact gtccaatctg tgaaccacta tatcgatgcc ggtggtgtcc 420
catcaaaca gattatccta ggcattgcaa ttacggccg tgctttcag aacaccgatg 480
gccccggccg accttactct ggtataggcc aaggacgtg ggagcagggt gtttatgatt 540
acaaggcgct gccagaccg ggtgccaccg agcagctgga taccaacatt ggtgcgtcct 600
ggtcgtatga tccttcgtcc cgtgaaaaag tatcgtacga tactgtggct gcggccgacc 660
tcaaggccgc ctacatgaga tccccggca tgacggagct agtg 704

<210> 3437
 <211> 2244
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3437

caggatccag gggggcctga cactgatgcc cctcatatct gcgcatcca gtcctatgaa 60
 tgtcgagacc tggcctccaa agcacagaat aactggctgc tcaggcttca caggcacaat 120
 gccaacacta ggggctgtgt ccttggttagc cttggctgcc agtgcaagct tggcctgcag 180
 ttcgttaaag gagctgcagc tgaagatcat tccttggggc agactgggat tagattgcca 240
 tttcatgttg aacgatacat cggcgagact cgccgcttgg tcttgtgagt ggaggttaaga 300
 tgccagtgcg gtgctgtatg ctgcaatgct gcgggcatcg aggccggaga tccagaaggg 360
 gagtcgctgt ccaccggaca aggggccttt gacaggcttg tgcgccgaat gtgcgacgat 420
 cgcgcttgaa tttgatccac aagcacgta gttatttatc aaagccacct tctgggctcc 480
 gggccacgac cgcaaggctg tgactacctc catgtttgcc gagggctgtg cgtggatacc 540
 ggggctcatg gtgttgaaac tggcttgccg agggatgaag ttgcctcgca tcatcatcag 600
 caccttgatc agggagacca ggccggatgc gccttcagta tggccaacat gcccttttac 660
 tgaccaaatg ggcagaaccg tatcacgtcg aggaccagcc acggcattcc ggatgctttg 720
 ccattcagca ggatccccc caggtgtgcc agtgccgtgg cattcgacca acgagatgtc 780
 gcgtcgggcg atacgtgcct tgccaatcac ttcatgaaag agcgtcgata gggacggtag 840
 attaggaaca aagagcggcg tagtgttgag gttctggttg acgcctgtag agcaaatcgt 900
 ccccaggaca gtattgccat cggccacggc gtttgagagc ttcttcagaa agacgtaggc 960
 aattccgtcg cctcgacaat atccatctgc accagagtca aacggcttac actggccccgt 1020
 cgggctgatg aagctgccag cggccaagtt ctgcgtccat tgcaggcttg tcaagatatt 1080
 gacaccacca catagcgtg cggggacttc ccagaaaagc aagtctctgc aggcattatg 1140
 aagggtaca gtagacgaag agcaagcggc atcgaaggtc agcgatgggc ctgtccaacc 1200
 aaagtaatgc gagatccggc ctggaataaa acttctgagc tcgcccgtcg tcgtgaaggc 1260
 gctgggtgga tggcagtgga cgttggaatc gtactcgtag gagcagaccc cgacatagac 1320
 cccaacgtgc ttcttctctt cctgctcagc agcacttgtc atagtcagct cgttgaaata 1380

tccagactgt tctagagctt ggtaggcggc ctcgaggga agtcggccct gggggtctat 1440
cgccatcgac tcgcgggggc tcttcttgaa gaacttgtagg tcgaaagcat ctgggtcgcg 1500
cacaaagttt ccataccact tccggttggg aaccttggtg cgaaacatca tgttgggcgt 1560
tatatggtagg ttggtgacga gctggtgctg cgaatgtccg gtcttgagca tttgctggaa 1620
ctcctccagg tcgttggttc ctgcaacctt gatggacatg cccaccactg caatcacatt 1680
ttcgtctgct tcttgaagcg gcggtctgct gacttgtagt gattcagtat cgtggacggg 1740
ctctttcccc ttgtcgtatt gtcggtgctt gggcacatcg acctccttat agtcaagcat 1800
cgctccaaag gcacgcacca cggggggagg caggggtcga tcgagaccaa attcaacgcg 1860
tgagagctct tccttggtta ggcgcagcat cgatgtggtg ctggtccagt tcaactgggt 1920
caccagcata gagcgcagga ccatcccaac caagtccgtt tcttgacctg agacttggtt 1980
tatgggcagt gcaagccggg cagcaacagg ataccgcagc tcgggcatcg actggcacag 2040
ttcgaccacg gcttcggtga ggcgtttgct ctctgccgtc ggggagtga gctgccccct 2100
gaaagcgagc tggatagccg tgacgccagc tgctcgaagc tgccggacca gcttgggtgc 2160
gaggcgatct gatactgtca cggtagctcg ggagtcgtca aggatagcag atatataagc 2220
atcaggagaa agcttttagat gtcg 2244

<210> 3438
<211> 2775
<212> DNA
<213> Aspergillus nidulans
<400> 3438

gagaatgtgc cagatagcta attccaattg actggagatg taattcccga ctactgatt 60
gcgcaggcat tgccctgcga tacgatagtc gcggtggtgg tagtaatcga tctaccagtt 120
tccttcgttt cggccgagga ccaaagttgg tgagcaaaag gaaaagaaaa aagctagaga 180
atataataga catttggaag cgttgagac cgtattgact gatatccatg aggagcgaag 240
ccattgagag taatgcagga gagacgttgg gaaaccctcg acatctatac atagtttccg 300
aaacgggttt agcgccactt cgataagcca tcggcggagc actttttttt tggatgaagat 360
ttcattcttt ttttcaaaca agtgaaagat ggctacactt ctccctcccc caagtaaagc 420
tcagaagacg gagactgccg agaaggcgcg tctgcagcag gagattcagg gcatacctga 480

cgacttggga agcgtgcgag tgcagttctt tgaccaagcg accggttcag ctacaggccc 540
 ggcggtgtct gtcccagtg cccgatgcgac agtaaaaaat cttgagactc ttttgaacac 600
 attacaagga aatgtaggta tgcgcgctga atttattcgc actgaaggcc agcgctaadc 660
 tcgccgacgc cttaggaaga ggatgaacga gtaccatacc gatttacttt ccagtccgat 720
 gacaaggaca gcaaggacag ccagacaatt gatatactag cagacatata ccaactccctt 780
 ttgaaacctg gggtgaaaac aaccgaagat accattcaac tttactttac tccacaagct 840
 attttccggg taaaggccgt ttcacggtgc tccgcctcca tcgccggaca cggggaggct 900
 atcctcgcta catcgttctc acccgtttct tcttctacaa tggtttccgg cagcggagac 960
 tcgacggcgc gcatatggga ctgcgacaca ggaacaccat tgcacactct taagggacac 1020
 acgagctggg tgctagccgt cagctactcg ccgaacggag caatgatcgc aacaggaagc 1080
 atggacaaca cagtacggat atgggatgca aagaagggtc aagcgctggg ggcaccattg 1140
 aaagggcacg taaagtggat caccagtcta gcctgggaac cctaccatct gcaacagtcc 1200
 ggcaccctc gtctcgctc tgcacgaaa gactccaccg tcaggatctg ggacgtcatc 1260
 tcgaagcgcg cagacatcgt cctttccggg cacaaaggct cagtaacctg cgtacgatgg 1320
 ggtggaacag gtaaaatcta cacctcctcc cagcaccgga caatcaaggt atggaactcg 1380
 cagactggta ccctgatcca gacattgtcc gccacgccc accgcgtaaa ccacctcgcc 1440
 ctgtccacag acttcatect ccgcacagcc taccacgacc acacaggcaa agtccccgag 1500
 tctgacgcag acaaggctgc catggcaaag aagcgcttcg agaaagcagc cacaatcaac 1560
 aacaagatcg ttgagaaact cgtctccgcc tcggatgatt ttaccatgta cctttgggac 1620
 ccggagagct ccagcaaacc cgttgacgc ctctcggcc accagaagga agtcaaccac 1680
 gtcacatddd ccccgatat ggcctatata gcctccgcc gattcgacaa ccatgtcaag 1740
 ctctggaatg ggcgagacgg aaagtgcgtc acaaactaac ctaaccctca attagagcaa 1800
 tttggctaac ctaccatcgc aggttcatca caacctccg tgggcacgtc ggcgccgtct 1860
 accaatgctg cttttcgggt gattcgcgcc ttcttgtttc ctctccaag gacacaacat 1920
 tgaaggtgtg gaatgtgcgc acaggaaaac ttagcgagga tctgccgggt cacaaggatg 1980
 aggtgtttgc ggtggattgg agcccggatg ggcagaaggt tggtagtgga ggtaaagata 2040
 aggctattcg gatatggagg aactaggtta ggcacagta taaaatcatg aaatcatgct 2100

gcgcattatg tgctcttaga tgagcgtcca ataggggtcaa ggatgtgtat tatacctctg 2160
 gtgataccta gaggaggtaa aacaatgtag taaatatgac cgcgtagagca aataggacat 2220
 ggccgggtca aaatatcgta caagatcgac caggcaacat gccgcagtga tagaagcaga 2280
 agctcaagta aattatatat taatcacctc gctatgctaa gctaaaatac aatgctatat 2340
 actttgcagt taacacccag tcatacaaaa gtatatccat accccttctt atccggagcc 2400
 atccattact gtagatccat catatcacgt ttcccccta gggctccacc actccatccc 2460
 tcaaaaataaa cctagacata ctgccaaagtc tgcccagaaa gctcactggg caccgcaatt 2520
 gccgagaacc caagacagtc ttccacatca cactgggaa cagtcgcatt cccagcgcc 2580
 ccaaacacct tccagcggtt atcctccgtt gggcaggcca taaaaccgt cgcgccccat 2640
 ccgctgtaca tgtaatgtcc gaatactgag ccctcagggc agaggatgta ctcgaagggc 2700
 cctaaggagg agcccggcgg gatgtaggcc gagtgggctt gcgtaaatct aagcgcgcca 2760
 gttgggtcga cgtaa 2775

<210> 3439
 <211> 1181
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3439

gcctttgtct gtgatcctt tgtagcaagt acgttctctc tcgcccctag ctactggag 60
 tttttgttgc taatcaaata tatgttcaga tggcttctcc agaacaaata ccctcccaag 120
 cactaagtga ggattcttga gttttctttt gttagttttt ataccagagg ttgccggctg 180
 ttgaagggat acttttctaa gcatgggcgt cttgatgcag tttcgaaatg attctggggt 240
 aataacaaat ataattctgc tttcaaata tccggcactc gattgaattt ctttcagcgt 300
 attgctgggt agagctgacg gcaaaatgct aggggaacta ctacttacca ggcgggagga 360
 gctgcgtaaa tcggcgactt tggaatgata tcttgatatg agagtttgat cttttagct 420
 ctcaagtata tttgtagtct tgcgcatata tctggtcgaa cgcaatcgca gaagcgtcac 480
 gcgtaactat cataaatcag gcaatgtcta aatgtctaaa ggcggtggcc agttgtctac 540
 tacctgacca agaataacat gtggcatcac cgataacaac aaataaactt gcagaaacaa 600
 ttgatttggg actcgctagc cttactgata taaccgtcta atacactgaa tctagtgttt 660

tccgcggcgg tttgaattgg aacctcagcg aacgcccccc acctcccaac tactacgtat 720
atcctccgta ataccgaaaa cttgctgaga acaaaccaga agatggtatg aggggtcccct 780
atagattttt ttgatattct tgactgagag tgatatttct tcatgtagaa ttcactgttc 840
aactccgctc tgaagcagtc atctgctata cgccgtgacc tagacacatt tgcacaatcc 900
cctgcgacaa ctctgcagc attacaaggt aaatttacgc ttgaaatcag tagccagtcc 960
gagtagtcga agtcccagacc gtacctacaa tcaccgatag tttctgactt tgcacagga 1020
cagattgcag cgtccttagc gtccctatcg cgaacgattg atgactactc agcattgtcg 1080
aagcgggaat tgataccaga aaaacaggag aaggcgtttg aacgagtga gaatttccgg 1140
gcagagctac aagattaccg acaacatttt gatcaactcg g 1181

<210> 3440
<211> 1185
<212> DNA
<213> *Aspergillus nidulans*

<400> 3440

aagaaaactc accagcgcca gaaagtaggc cattagtgtc acgaacatta gaaaacctct 60
gctgctgccg aagccgactt tttggcatcg ccttgggctt gaacgtatcc tcatcatcgc 120
tgagaccact tgagcttgta gaatcatagc tcggggcccc atcagccctc aggctcggac 180
tagcgctacg atgtcgccca cctgttgag gatccggctc ggcggggttcg tatgagaacg 240
cgaattcgta ttcttcgtcc gaggtccgc gcgctgctg agcgtccaag catagaagct 300
ggagaagaac gtcttctcgc ctcccgtgga ggcatacgta cttctcggtc tctaaaactc 360
gggagtggcc acatttcttg cgccggtggc aaatccagca gacggtttct ttgcagacgg 420
tgttgtcgcg aagctgaaac gatcactacg tgagccactc ttataccaac actgggggttg 480
atgccatcgg ttcggaacca cctggtgccc tgggagcaga cccctgattg ctattttgag 540
attgagcatg agatgtgaaa tcggcagcca aaggcttggg gttagtgtac acatgctcat 600
agccagattt cggctctcga gacgagccgt tcgttgtagc agtcggtctt gtgccagcac 660
cagattggcc tgcgcgtccg cgaggatcaa aagatgacca tccaggcata gcgttcccct 720
tcatctcctg gaacccccga tacgcatccg cagagctctg cgtttgatcg ggggccttct 780
cccacggctg ctttggtgca gcccttgcat agctggcgta cctctgagca cccgtagaag 840

gaccatgatg aaacgacttg ggacgttccg taaagctcgc cttcgtattc ggcctcgcgg 900
 ctgaataact tgttgtgggt tcctttcgag gactaggttt ggtaggccc tagtagccat 960
 ttcgcaatct atccgtatca tacttcaacc gctgggtgagg atcgatcaat atttcgtgag 1020
 ctgcctggat tgcctggaat ttgcattcg cttccacttc tctgccaggg ttccgatcgg 1080
 gatgatattt cagagctaac caacgtcaga cacgctcgac ttcgtcattc tccgtcgcta 1140
 tctccatag ttttcctcac ctagcttcc aaactgcttc ttgat 1185

<210> 3441
 <211> 954
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3441

gtcggggcgc agtcatgccc gcatagcctc cctcgtcaaa gccatcctcg tccaattgaa 60
 tgtcaggcgc gtaccggtcc agatgatgtt gattccctgc ggcgccagct gctgcggcga 120
 ctgctgctgc cgctgcccac tccgacacgt cttggccggc cgcagctgta gcggcctcta 180
 ccaagccagc aagctgattc tcgctcggcg catatccact cgttgaaatg tgtgtactct 240
 ggtctgcgcc ggatgaagcg ggtggttgat taccagagaa ttcgcttgat ggtccggatg 300
 ggggatgttg ttggtttgtc ggagcggtag acgtcatgac gaccgtgttt tcgacgctcg 360
 caggtatcgc aacgcgctaa gtaatatgga taggttaatt ccaaagctgt cacaagcagc 420
 tgcttgtaaa ggtaatagag ctagtataga ctccggcaaa tgtaccctcg cgggacggat 480
 ggtacaccct cgcccgtac cctccagggg cagtagaaca ggctctgaat tatcgtttga 540
 caaaccagtc aacggctgga gagtcaaagc ttccagctgt ataataagt aaggtagttg 600
 gagagtcgca ctaggtcgat caatcagatg gcgcgatgag gctgtttgtg tagcttggag 660
 ctacgacaga caatgcaaac ttttcgttca agaactcctc cacttaatat gtcacgtgat 720
 atttttgagg cagattccag gcggcattac tcaacatcca atggtatatg cgtcctacgg 780
 tcaacttggtg gaaatacaat atggatggta tcttaacctc aacttttatc attgaaaatc 840
 ttgtcgacca attggaacca gccaaatgat gcgctacgtt tgagataccg ctcgtatatt 900
 catgcccngt ncatcataac agggagcatc acatctttat tacaaaaaac gccaa 954

<210> 3442
 <211> 4898
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3442

```

ccaccgaaac ctctgcatct gacccctctg aatacaacga attcgcggct cctttctccg   60
ttcaactttg ggaatgtctt gtccgtgtct tttcgcagta ttggcgcagc cctgtctaca  120
tctactccaa ggccgcactg agcatcctga cttcgtctta cattggtttc tcgttcttcc  180
aggcacagaa cactagacag ggtctccaaa accagatgtt cagtatcttc atgctgatga  240
ccatcttcgg taaccttgtc caacagatca tgccaaactt tgttacccaa cgcgcggtgt  300
atgaggtccg cgagcgtcct tccaaggctt actcctggaa ggccttcatt acagccaaca  360
tccttggtga gctcccctgg aacaccctaa tggctgtcat catgtatttc tgttggtact  420
acctgtcgg tctctaccgc aatgccgaac ccaccgacag tgtccatgag cgtggggctc  480
tcatgttcct gcttatectt gccttctctc tcttcacctc taccttcgcy cacatgatca  540
tcgccggtat tgaaactgcc gaaacaggcg gtaatatcgc acaattgctc ttctcccttt  600
gcctgatttt ttgcggtgtc ctgcgccgtc cggacgtcct cccgggcttt tggattttca  660
tgtaccgggt cccccgttc acttatcttg tttctgccat gttatcgacg ggtgtttctg  720
gtacgaccgc ctactgcgaa caggtcgaat acttgacgtc ctacccccct agcaacacca  780
cctgtctccga gtacatggac cctacatct ctcaggttgg cggttacctt cagaaccctg  840
acgccacgtc cgagtgcaca ttctgccaaa tctctagcac ggataccttt ttgtccgccg  900
tctacagtaa ctacgacgac gcgtggcgca acttcggcct gatgtgggcg tacatcgctt  960
tcaacatcgc tgccgccgtc ttcatttact ggcttgccgc tgtgcctaag gggaagaaga 1020
attaaagtcc ggcttaaate ttcaactctc ttctcttctc tttgattccc ctgaatacca 1080
catttttttg cgtaatgttg cgaggggtgt tggctttttt tggacttatc ttttcgtctt 1140
gcatatcatt gataaacatt tcagcacata cataatagac tagatctcat cttcctcgaa 1200
gattacatac ctatttacct accgctacct gtgcctcatt tcttatacct acttgctttc 1260
tatacagcca atctatttct actcagatgg tcaactcgct ccttctgtcg tttttacttt 1320
tcctttcttc gtgtactcaa tccgccacct ttgtacctct ttttattctt ttcttttccg 1380
ttcttggtta aatacattct cattggctgt gacagtcaac tacttattag atatcgggtca 1440

```

aatctgatta gtccacaaat taagttcaga acgttgaatc aagcttccgg gctattctga 1500
gcgtatatcc catatgtgat atgtccaatc gccactctcg aggtcctggg cgagtcgggc 1560
acccaaaaag tgtaggaagt gcctatatag ggctcagccc tgccgccctg ccccgagta 1620
tgcgatgaa gccgaagaac ctgtatatga ttagtgatgg ttttgactac gcggtctaac 1680
ttcacaggag gaaaaccaag ctggaatcat gctcctgagc tgggaacgct ggtgataggg 1740
aaaaggagga caggcaatcc ctagggggca ggccatccgg ctggcatggg tgcaatacag 1800
tgcagcctcg agctacggcc ttcgctgggc tctcaaccac cccctgaacg ctagagccga 1860
tattcgatgg gcaatacggg tgttcaacaa tactgtctat tcattatcgc cacatcatac 1920
taggaggaca gctgagtact tattgtctca ggggggtacc aatacacctg ggtggtccca 1980
agcgccgaag taagagactt agctacagct atttcaacc tccagccaac aacaaacttt 2040
gtcccgtcat ataccccggt gtagcaagca tagttaccac attagccacc tcctccggga 2100
caccagcct tcctatggga atacctgccg caacttctgg gatcgctga gcattaggaa 2160
tcataccggt gtccccgac atggcgggcg cgacgtcgtt gacgtgata ttgaactctg 2220
caagacgtgt ggagagattc ttcacatgc ctgtcatgcc gcctttggag gccgcgtagt 2280
ctgcacgtac tgatcttagt cgttgattca aaattgaagg caggagaaac aaagcacata 2340
cggcagccag ttatcccccc accagaagca gctatctaag acatgaagat gattcggccc 2400
cagcgttgat tgcgcatatg ttctatcatc gcctttgacc aggatgaagg aggcgcgaag 2460
gttgacgttt atagtgtagt caaatcctc caatgtgatg tcccaaactt gggggacgcg 2520
ttttccgtat ccagcatttg agacaaggat atcggggcgc tggccatgct ctttatctat 2580
ttgaagaaac atgtcttggg tttgttctgc ggatgccacg tcgacttggg ggatggaaat 2640
tcgcagatct ggaaacgttg ttttaatttg ctctgtcaag gaggttattg cggagagatt 2700
gctggcatat gttaatgcta ggtgaacgcc tttctcagcg agttggcgag cgcaggccgc 2760
tcctatccta agcgcatgtt agccctagtc actgagatgg tgtgaagggg tgggctcacc 2820
ctccagaagc gccagtgatg agggcgagtc ggccgcgaat ctcgtttaac tgcgcatag 2880
ttgagttaca caaggtagaa tttgaatcgg ggtaggctag atactttggc cctggcgag 2940
gtataaacga ctagcagacc cagggatgag ggcggttttc ctcggatcgg agcaaccccc 3000
gataccccgc atcgatggtg tggggggaca gtctatggat cacggtctcc acatcgggta 3060

tcgtttcgat tccactaaat cctgacaggg atacctaagg cctttcaaca gtgatcagaa 3120
 tagaagagcg ctcgatcatat cgctgacca cattggaatc tgccattctc gatcagcgcc 3180
 ggattggtat aaaccaggat tctgcaaggc atccaacgat aatgtgccag gatctcctga 3240
 gacatagtca ccaacagctt cgagatccaa ccaagagaaa tcgtttgctg ggctgaagtg 3300
 cacatagccg tcctggccag acacgcattg tgaaaggggg ttctgtgttt gcatcacgat 3360
 ttcatgtctt tgctgagtc ctgccggcga agctggagcg gtggcttttg gacgccagag 3420
 aagctcaagg agcctagaat aacgagctcc aatatcatcc ggcccggcac tggctcgctt 3480
 cagtacttct gtggtccgag taacaagttc gcggacattc atctcctctg cagggagcat 3540
 gacaccaaact gatcgcgctt ggtttgttag ctcaattaag tacacaaact agagattggg 3600
 gataccttat agagaaaaac tgcggcgat atgccgtaca gatagaccct tagtggcata 3660
 aaacggaggt gcttttcagg atcgccgctt tcgacaagta tggttaggt aacttttgcg 3720
 gcatctaata actcaataat aaatcgggca tcttgcatcg aggccacgtt gtcaaactg 3780
 gctcgtaaat gctccctctg ggagcggcca tcgtttttct gctttgacaa ggactgggaa 3840
 attgcagctt gaaaagcgaa agcgttggt tagagtctaa gatattcgta tgacaactgc 3900
 aaagtagttt gcataggcgg ggaacctata ccagttagca gatattcgcc tcagaagcag 3960
 cgcggtaca tttaagcgag cccaacgcg acttccaccg caatattgca agtcgaaaat 4020
 cgtctacata tttcacgtaa tccccatta acatcatctg attactcgtt cgcattccag 4080
 agtaaagaag atcgtggacg tttccgtaaa gttgtgtgag gtccagcgta gcttggata 4140
 tctgggcata atcctcgtcc cccgctttga caggctgaag tgacggaaaa tcctggctga 4200
 caaggccagt cattgggcca gggccgcgcg accagaacgc acgccaatt ctacagaaa 4260
 taagccgatc cgagatatag cagcttgctc agcgagtcgt ctgcgtgctt ctgcctctgt 4320
 atctccagaa gaatccccgc gaaatgaggt cctatctagc ccaaaaagt aacctgagcg 4380
 cagggaagc ccgacatgca tccaggcagc acggtcctcc tcgccgcgcc caactcgctt 4440
 tatctttggc cgcaagccct gtggttccca ttcggcgagc agaagaagt cttccacggc 4500
 ttccacatcg cagtcagccc cggcagcaat actggaaatc agttcatgca tatacttggg 4560
 gcagtactca tgaatctccg gtcgctcaac taagtctttt gatgctattg tgataacggc 4620
 agtgagcaga tgtttctcat tatccgcgaa ggcgtccaga gcagcgcggt ggaaatattt 4680

tcgagggacc agggggaggt acgggtggaa attttctgcg tagcgagcaa ccaactgcca 4740
 aacggtaccc gcatcaaggg atcgcgattg caccagcctg tacgccttta taccggtttt 4800
 cgtctgaggc tagccacatc gccattttgg agtgcactat atggggaata tccgcctgaa 4860
 ccagtgcgca cagaggtcgt agttgcagga ctaggccc 4898

<210> 3443
 <211> 1437
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3443

gcaaatgcat cttcaaactg ccgctecgga acctctcttt cgcgatgact ccggctcaac 60
 aagctcaacy catgggtgat ggtcttggaa gagttccaac aagtttatac ggtggcctcc 120
 atctatcgcg gcatattcgc caaggetatc cagcttatct gccctgaaag caccggtact 180
 ggtggtaatg agaacagAAC agtgacagga tcttcttcg ttccgttacg tatgggagta 240
 tctgcatcta catttgcaac cataccgatt ccgcctgaat caaccgaact ggaccatcaa 300
 cacgtcggta ctactgetac tgtcggccca gagccaggcc aaggagcagc tttgactgac 360
 atggtggatg ccttgttgga cgagacattg ccgttcaatt tctgggagac gtgggggagc 420
 atgtgggttg tttttgtaga tggaacaatt cttgagaatg gtgcccagaa aacacccagc 480
 ctatgtgttt ccataaccaa ggcccttggt cccagactg attcgggctg cttggcacgc 540
 gacgcttagg atcactctgt gatttaccat ccatcaatga acccattttc tgaacgaagc 600
 tcgttagcag ctttaacgtg ctctactaca atcgtagcca gtgactgtct gggtttacct 660
 gtccgcgaag acattgcaa gctcaagtac agctaggtat tttcaggcat gtacgtttta 720
 tcccacacga caagtacgat ttcagaagga acctcggaat aatgtgtatc attctaacca 780
 actctccttc gttttggaca cattatagcg gagcaccgga gaagggtgat gggtgtttgt 840
 gtgactataa ctacgaacgc gctttagcgc aatcttccca atggccgtcc tgtaaagggt 900
 ggagttggcc ctctgtggaa aattgtgctc agtattcaat ggcgtcctga gcaaaatgaa 960
 aagcatgctg caagtgaac ttctacgcac tatatttatc tacatcctag ccatattaag 1020
 cccctcagca gcttcagcgt acgttattac aatatccggc cagtgagagc ggagaccaac 1080

gtaaccaata aaaaccaaga ccaagataca ccgggatttt ttccatgttt ttattttgcc 1140
 ttccattatg atagacaggg gaagcccgca aagcacccta gaagtcgatt gcaggcacca 1200
 gtcagcagtt gctttggtag cctgccaaaca gnggcagacc ttattatctg taacaggaat 1260
 gttcaatcgg gtgccaagc atgtcagccg atctaggtgg agaaccgcaa attctttctt 1320
 tccaagaaaa gcaaggcctt ttgccttggc ccctaaggga caactttttt taaggccgac 1380
 cccacctttg gtttaagggg aatttcgga aaaaaaaca ccgggttttt tttttt 1437

<210> 3444
 <211> 2382
 <212> DNA
 <213> Aspergillus nidulans

<400> 3444

gtgattgaat ccataagtgc aactcaggaa agtcggaagc tgatccgccc ccgctacgca 60
 gtgaatttgt cctgccccgg atgtcttccg tccccactat cgcttctctt gctctttggc 120
 atcatcctat cttcttggtc cattggctac ggtttttaac atgctgcatt accaattacc 180
 tatctttaat tcaattcatc gttgctgagc ctatcccggg aagaatgacg gttcttctcg 240
 gagtctcaga gcgagtgttg acagaatgca tgactcgctc gttcttaacg agcctatggc 300
 tagtgctaac tcaactggcat tgtcacagcg agcacggcg tcaaggaagga cttgagataa 360
 gatcccatgt caccgtgttc cgggtccggt tccatcatac catttagaga cactatcatc 420
 tgggctaacc atattctagg gggggcgcggt ttgcatcact ttgagcgctt gatgctgatg 480
 catgtgaaga ccattctatc gattttctca atagcatcct cctagcttta gagtctacac 540
 atcagaactc gccacaatgc tttccttcca gttttctcac ttgaagagta cgagttctcg 600
 gccaaaactg gctttcttcc tgagactcct cctctgcggt gcttgccaga ccattattac 660
 gctccctgtg agaccgttgc ccaagatttg gctgctagta ttgaaaacgg tactattcgc 720
 caggctgtcg agagtctgcc gttgctcaat accacgaaac tgcgcaccaa gccagaatgg 780
 aggagagcct atgtggctct ttcctatctt acacatgcct atgtttgggg tggtgaaatc 840
 cccaaggagg ttggtgtttt gtcctctagg catttgatat ggcttctcac tattagtgtc 900
 acgctaggtt ctgccttctg ctatctcagt gccatacctg gaagtttcac gatacctaga 960
 gctgccttct gtagcaacat atgcagccct taatctctgg aactgggtcaa cttcatcacc 1020

caacgatgac ctcacctgtg cgcacaatct ctccgtcaca ttgtcatata ctggaacgaa 1080
 agacgaggag tggttcttca tgggtctctgt cgccctggaa gcgagaggag cccgggtcat 1140
 cgaaatgatg ctaaacacca tccaagccgt gactgtgggc gacgaccaga gaatagtcgc 1200
 atacctcaac cagattactg aaggatttaa tgagctggct cgaattctgg aacgaatgta 1260
 cgagaagaac cgccctgccg ttttctttca cttactccgt ccgtacctcg ctggaagcaa 1320
 gaatatggca tctgctggtc ttccaaacgg actgttcttt gaccaaggaa acggtaaggg 1380
 tgaatggctc caatacagtg gcgggagtaa cgctcaaagc tcccttatcc aaacttttga 1440
 catttttttg ggcgtcgagc acacagccat gggaggtccc actaagactg agcttccaaa 1500
 ggcaaaattg ggaaagactc catacatcca ggtatgccaa gtcacctttc tcgggctggt 1560
 gtttatgagc aatcagacat taatgatcta ttgcaggaaa tgcgaaacta catgcccgga 1620
 cccacccgac gtttcttga aatgctcact cgaaacgcc aatctccgtcc gtatgcgatg 1680
 agctgcaagc tcgggtcacc tgtgagagat gcttacaaca ccgccgtcat ggctctcggc 1740
 tcgttccgag acaagcacgt acagatcgta acgaggtaca ttatattggc ctccaagctc 1800
 cctcctccag cgaacacacc tgtgcggata aacctggctt cgacaacgca aaccagatg 1860
 aaggactcga ctgagaaggt ttccacaggc ttcagcggca caggtggaac tgatttgata 1920
 ccctttctga ggcaaacctg tgatgacact aaggctacgg cgtactatgc ggattgaaag 1980
 atttagctgc ttgcctgact ttgcgagccc attgtattat gatagagtat accatttgat 2040
 ttatgagttt agcgaaaatg aagtgatttt tcttttcccc gagtctagtt attttatggg 2100
 ctatctcaat gttccgcaga gggaagtga aaaagtctga ggaccttcca gagagcgaga 2160
 gattgtcgct ttttcaacac cagccataat ggagcagaac cggtttattt tctgtgaagg 2220
 gatgccgacc agtgtgataa tcttgaagct gcgattatga ggctgcgggtt ggtggagcat 2280
 gcatgcccac gggcacggcc cttgagcaag aaaagagaca ggacgcggca taaattgttg 2340
 cttctctcac acagccgacg cacgatctag ttacaggagt ca 2382

<210> 3445
 <211> 3606
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 3445

gccggagata aatgccaaga aataagcgag taaagaagcg acagggaact agaagatgaa 60
 agcaggtgag caaacgagta gaaaggaacg agtcggcgagg tgagggtagg tgggaaggag 120
 gtataggaaa gaggaggaga gttccacaaa ataaaggaga cagagaatta agtaactgat 180
 agcaataatt acaacaagtt agatgaattt aaggggaaaa tgcaacggcc tgttaaaagc 240
 atacaagcat gagccacaga cccactccgg tcaagaacca agaagccgtc ccaagtgtc 300
 ggaaatcccc tccatcgtgg gcaataaccg ccatcgaagg cgccgcacaa tatcatttgc 360
 cccgcaatca ggagccaacg cctgcgaaac tctcgcatc cgtaaaaagc gcaggcgcct 420
 cagtctctct agcccatacc gaggggtctcc ggcaatagat gccaacaacg atgacgcctc 480
 gacttctggt acagcctatc cgaagctatc aaggaagccg tccaagctgg acgagtatga 540
 gcacatgatg gggaggggta cgaccgctat cgacagatct cagtctccgg aaggcactga 600
 gccattccct gagttcgtcg cccattagca cggcgaagaa gaccgatttg gcacataaaa 660
 cgtcctcgtg ttcgagtcga tgttcaagct gtcccaaac tggttgcata ttcaggtgag 720
 ccgtccttct gttctacatc atcccgtgtc ttagtatggt gctgactgtc gttcaggaat 780
 cgcttggatt gtcattgatg gcgctaattg gttgtttgaa tggatcggac tgatgtcgag 840
 ttgagcagca cgacgaattc acgacaataa ggtcagaagg cgcaggcttg ccaactgtca 900
 tgtacatacc ttggttcttg ctcccgattt atgatagatt gtgattggcc aaatagtctc 960
 tatagactta acgaatatga tctttaccct aataatactg tacctcttat cctgaggctc 1020
 gtggtgcggc taaatggcgg gtcccaatct cacgtgacat aaggggagcgc accgcccgca 1080
 cttegatctc agccaacctg cgggcagctt ctttctatt ttgtctaaca cacctcttgg 1140
 tcttctaac agtcgcgat tcttcttag tatcctctca tcctcttctt aaccgcccct 1200
 tcttcattga gatattctaa aattgggcga ttcttgcgac cagctttgtt gtatttctct 1260
 ttcgaaagct ttcagttgcc gcgagtttcc tcgtgttggt aaccgcgctt tcatttctcg 1320
 actctttgtc gacaccgtcg cagatacccc tcctccttca attcatttta tttcaacctc 1380
 agtctcgac catcgcacgc catggatttc gttaccaatg gccagccctc tcctaaggat 1440
 acagttatga acgacgcgtc tccgtacgac gctcttcac atcaacgaac taatcggcaa 1500
 ttcactagcg aagacctggc tgatcctaac tacgtcccta acccgtccc attcggcgcg 1560
 aagaagataa cgcctgacga aactcatcgc ctttctacc atatacatc gagaaagcct 1620

agtcaaaggc ctgatatggc cctgaagcat cagaaaacag cttacagcac gacccgaagg 1680
 cgttatgatt cactctcccc accccaattc caattcacac gaggacgaac tggatcccaa 1740
 catgaacagg caccacttgt gttgccccgc gtcaatgaga ttcagcccta ccgattgacc 1800
 gcaacgaccg cttctcgatt gaacgccaca acctacagca gtagtctcat gaatccgatg 1860
 cgctcgtctg gacacgactc gatacttggg gctgggtcttc gtggctcgtga ccgtccgctc 1920
 tcgctgttcg gatccgaggc ttctcgccaa gctgcgatga tccgacctag gaagcgcgac 1980
 cgcaaggca atatacctga cactacgggc agcatatttg tccgcaacaa caatgccaat 2040
 gatgggcgca acaatgacca acagcatatc gcgtcagccg acgctgatag tcccgttttg 2100
 aaatattgcc gtgggtggcac agagtcacatc tttagtgtctg ctgtcgataa tattaagaaa 2160
 gtaaatgggg atccagttca acctttggcg caacgccctt ccttccactg gcagcgcgct 2220
 ttgccttcaa agacgaccga ccccgcaact cctggtaagc aaacaggaag ctcgactgct 2280
 acaggccgta ttcttggtg ctggccatcg gcacgaaac atgggttcgat gccgctactt 2340
 cctgagccac agcagaccgc tcagacgcag caccaaaccg agtctcctgt aacttcccaa 2400
 gagatatgtg gccaggctga cttgcccage aatgcaaac cggagccggc caccgttaac 2460
 cctgaccaag ctattctgga cgaaactccc tcttgactc aacactattc tggcgtttat 2520
 ggcaccctac ggatagctta ctctttccag tgtgggtatg tgcagactgt tgcaaatgca 2580
 ttccatgttg cactcgtgc tgccagcact ataaccatc aaacgcaaca ggcgctggga 2640
 actgtaacac agcgggtcat ggccatgtac agacaacgtc gctttgatcg tgcgcgttcg 2700
 cgtgctcgtg caagccctgc cgctccggct cggcaacctc caactacaat agcctctcct 2760
 gctcgtgtga acgttgcgac actgccgctt gggcagcagg agcgtgtgcg aatcaaccag 2820
 tggcgtagac gtcgaggatt tctgtcaat gaagaactcc cattcccgaa tatgacaacg 2880
 ccaatgggag ctctattcta tgatccgaa ataatcacia catcttcgcc tagcgtgcag 2940
 cgcagtcttg acctcgtggg agataatgcc tccggggcta ctttgacag gcaccccgcg 3000
 cagcggcgaa catctgtgaa cgaccgcgat gacaaaaacc ggctcaagc acccaaagct 3060
 ggggattctc aaaaagaatc tctctgggtc ccaccatgag ccccgcacnc ccgacgtcgc 3120
 cccttcctga tacatcccc cgcgtacccg ccggcttgga ctccagcaca agggctcgttt 3180
 ccggtctccc atagttaagc ctttgccctt ggcgctttcg ccagtgggct aattcatccg 3240

ccgagtcggg acccgggctt aatgaactgt tgcgcacaca gctgaacgga gccgatgcgc 3300
 cgtcaaccgt ggctagcgat cagcgtactg gacccgatga acagctatac gcgcaattgg 3360
 ctgcttctct cgagccgtat gtggatecct gggcgagcc gcgcgacttc accaaaggta 3420
 ctectaggtc tgctgtcaaa ctcgtaaaac ccaagataga gccagtcgcc gacggccggg 3480
 ccgagtcgat ttatgcaaag gaatatgaag agatgcaaaa aatgaagaat ctggagtatg 3540
 ggccagttgg acgacaggtc cctgaggggtg ttccgtgcgg gcctctcccg gtaattggaa 3600
 agcgta 3606

<210> 3446
 <211> 1835
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3446

gtcctatgta acaaaggtag cgcgtcgccc cctcaaacgc caacacagta gacaatgaaa 60
 cctgacttct tccagcttga ctctctgcac ctttctcttt gccttgggtt ctggacaaca 120
 cttcaaccca ccatgtcttc ccgttgcgat tctgctttat tgccagtctg atccccaacc 180
 tctctggcat tgctaatact tgtcaactgg tcatcatgcc gcggaaggac ttccagagag 240
 acctcgaga tgctcttctt ccagggtcgt tccctcaact gactgacgtc agagctggaa 300
 gtgaggatgg ttctttttac ttcacctaca cttctccctt cgacgtcca tccatcgatg 360
 tggaggatgc gggtccagggt aagatccaaa cacaagcatc gttgagagct aggctgactt 420
 gccggcagac agcgcagagt atcctagagg acaccactac tttgtattca ctatctcgga 480
 aaacgttccc gagaatgttc cccgattcct ggaagattcg ctcgatagtt tccatggcct 540
 ccctcttggc gctttctga acaccgtctc cgattgcctg aatagggcta cttcgggcga 600
 tgacgatggc ccccggggtt tccagcagga cagcagcgt aacgacagcg accaggattc 660
 cagcgtgat gagattggct gggagggtgg cagcgtggt ggtctggttg tcaaccaca 720
 ggcaaaaact atcgacgtga agaagtgcac ccgggccgat cttcgcaaag ctcaaaatgc 780
 tgcctttcgt gtagggaata tgggtgatcc agaaggctcc atcaaaactgg cgacttctcg 840
 gcgcatctcc aagctagggg tctctggtga ggccatgaag gcgtggggcg tccgaccgtc 900
 tcagtatctc gtctctctca ttcaatatcc gtatgggttac cggcgtctaa tcgatgtggt 960

ccaaaggcct gaaggatgcg gatatgattaa actatatgct ggcgctctgtg cggattacaa 1020
 gcctagtttg agctccgcgc tgcattgtgtt tgctaacgaa gctgcacctg gaccgcctga 1080
 tctaggtcag gaaactaaca aggatagcat ggagccggtt ctacactcaa tattcattgg 1140
 gaagtctctc caggccctac tcaacagtcg cttcatagac atcgtcaa at accgtttaga 1200
 gaagaagttc tcatggacag gagcagagct gtacatgaac gacggtcagg gaaggctcct 1260
 agtctctgat gaatcaacat gccagcaaaa atactttgag cgggactggc gagggtcgcc 1320
 gccagcttt ctcaaactg atcacctggc taatactgtg gatccatctg acatgtccct 1380
 actcctcgtc gccatgccag ttacagtttg tcgatttgtc aggggtgcacc gaattctgcc 1440
 ttaactgctc ctgctatttc tacagctgtt ctttgtaacc ctcatacctt tcgtttgctc 1500
 cattgttttg ttctctttct ctctcttttt tcttcttttt tattttctct tttttttttt 1560
 atattcttta tctctctctt cactattttt atttttttcc tctttctctt tctcccccat 1620
 ttttctctac tctttttctt tctcccttct cctctctcac tcttctctt ctcttttttt 1680
 ttctttcccc tatcttcttt ttcttcttat ttctatcatt ctttcttttc atctctctt 1740
 cttttttctc ttcttttatt ttattatctc ctcttccctt ttttcttttt catttaactc 1800
 tctatctatc ttttttcttt ataattctct tcttc 1835

<210> 3447
 <211> 732
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 3447

tatctggctt gtccaagttt ctttggcggt cgatcgctt cagaccgccc caaaacttca 60
 gcagaatctc cggcgggtcag tggcaagctg agtcaccgc gaccctgggg tggcggccgt 120
 ggccaatgag cgcacgagaa gtaacttgta tgcgaaaagg ccagatggcc gctgtccttt 180
 cttcgccgct ctgtctccat acaagaagg gtccatagct tctccagttc ttcttctctt 240
 tctctcttct atctctctcc cacaacctg ttcacctctc ttcacttctc tcttccagt 300
 attagagggt cggttgcctt attacttctt ttttttctg tcccgtgta ttcaccatt 360
 gtttttcgag cagcgtgtgt tcttccgtct cttttttgag acttcggctg gagtcttgaa 420

tctcgcattt cgacacataa ttcgccatgg cgcgtccctc tttagccgcg gtgtggccaa 480
accgttcgcg actggaccac tatcttctcc ttctccttgc tttatcgcgc ccttcgcggtt 540
tttggttcg gccagcccag gagatgatca gtgcangaaa actatgaacg gtattggaat 600
gatttggaaac aactactcga tgtcaattga gcgatagaat ttggccaagt taactgtccc 660
ttttgtggtt gttcagatcg aaagttaatt ttttacgaca agaaccgata ctcttcttct 720
tgctttaaaa ag 732

<210> 3448
<211> 3041
<212> DNA
<213> *Aspergillus nidulans*

<400> 3448

actctggtct tcaatcttac tggaccagcc agaatgacag tctcagatct ccatgaggct 60
ccccctcggt cttagctctc aataggacgg ggatcgcatt tgctggtgcc tgctgggcgc 120
tgccgaccac tgctttttcc ggtcgaactg cacactacca gtgagtagtg tccttggttg 180
gacgaaaata tccccaccc ctggttggtc tgcacgtca tctccagctg caattgccgt 240
tcgtcagtct actctggctg ctggatggtg agggctcttct agatctaggc gagattcagc 300
atcaggctga agatcggata gccggatagg cctgtgatac ccacgcaccg cttggaagcc 360
ctacataatc accactaagg tattagaggc cgatataagc gagataacag aatgaataga 420
atgcgggaag ggtaaaaaaa aaaaaataa ggggcaggtc gtaaggtaag cgccgatgcg 480
gcgactgttt cgcaaacatc gtctcgtgtc acattctgaa ctgcaccccg aaaggggttt 540
ttaattacaa caagcttgggt atcaatgaat agagacataa cgctggaggt aaaaaacggg 600
gtaacaatat tcaggtatac aatcccacaa tccactacaa gataacagga cgtaaagtca 660
aaaggtttcc cgaagaagcg agtacaata gaatgaaatg tagcatcgggt ataggtgctc 720
cagaacgaaa tcaaggtctt accttttcag accctccgc acccttcagt ttgcttcgtc 780
ctttggagaa caggccctta tcggccttac ctgcttgccc acctaact cctggagtat 840
gcaggaaatc ctttgcagac tgttaccgca tggatccgag cggcgcatat ggccgcctaa 900
tatggcccga ctttgagtgg tgagatccat cttggagcga agacgcaagg tttcctaagg 960
atgcaagtca tgggaatttg gtgcgcggtg cgctgttttt gaactcctca catagaggtt 1020

ttgagttgcg gcttatgaca tcgtgatgct ggggatgggc atggaacgta acctgaagcc 1080
 agtttcctag accggtattg atggttgcaa attgatctcg cgtacgggtca aaagactgaa 1140
 tccgttcgta cggtgactgc atgttgagaa tgtctttaaa tcctagcagg cctgtctcgt 1200
 cagacacagg cgggtgtgtgc gttggtcgtt ccagggttgg cggcatatgg ctggacgagt 1260
 ctccctcttc ggcccgggca agtgtctctg tagtctggga aagggcaggc tcatggccat 1320
 ggtcactcaa tggaatgcta ggagcatcca tcgccactgg cggtagcaga gtaagcttag 1380
 gtttctcagg tgtaggaggt ccaacctctt cctctgacgc gtctgctatc tctgattgtt 1440
 gtttcgtggg cgctaccacg gattccggga ggacactatc ttgcgaaaag gggaactgcc 1500
 cgggcatcgg tggcggtcga gcgggctggg cttgtgtgac aggaacagga tcctcgtctt 1560
 cagacgattc ttcccaggag aagcggtttt tgagtttagg ctgggagacg tgcatgggg 1620
 gaggagttaa attcccagtt gaaagagctt gggatgtcgc caggatagta tcaaagtgcg 1680
 gtccagacgg ttctgacctt ggggaagttg cggtttgagg tgccgccctg tgggcctcat 1740
 attctctcgg gagtagatta ttctctccac tggtagggg tggcgtgcca ttctcctggt 1800
 tgtcggaggg tgagttctct ctgcttaggg aacgaataat ctctttctt aaccgatcat 1860
 tctccgtatc ttcaggagaa ttttccgtac tcattgccg tatgattaca ggaatgtctg 1920
 ttgatacagc cggattagag acaatatttg tctgaacgtt aagagggtgca ggcaagtcac 1980
 ccctcgtagc ctcccagag ggttggtgga tatccgggtt aaagacgtgc tgctgaggct 2040
 gcgtggccag aggggactcc actggtgatc cagaggatat ttgagccagt tcggacgatg 2100
 cagtggcatc gggcccagca acgaccggc tgcgagaagg actgttgcca gggctgggta 2160
 tgcttagatc ccggcgatgc cctggcttga agaccatgtt gccttcggtc ggcgtttctg 2220
 tattctcatt cggctcttcg tggatggctg gggttttgtc atcggtatc ccgcgacggg 2280
 gaatgatggg acttatgccc accgtgctat cgctatttga gcgagctatg ctgtcagcaa 2340
 cggacttgg agtttcacgc ccatcccaag cttggttgac ggcggagcgg aagccgagag 2400
 acggattgtg atgtaactga tgtggttgat ctcccgttc ctggttgctc tgagggctgc 2460
 gttcgggttc actgaagaaa ccagaaccga acgcggataa gcgcttcact tctggcaatg 2520
 agagggccgg ggggtcgttc gatgctgccg ggggggtact cgctttcttg aactggctt 2580
 gttctgcttc gtaaataaggc tctggggctt gagcggcagg agggactgtg ttctcggaag 2640

actcaagaac tgtaacacct cctgaagcgc gttcgtctgt cgatggcgca gccggggatg 2700
gtcggcggtc ctgctgctcc tctcgcatcc gcttatagat gtcagccggc cggactatgg 2760
gtgccgttgg actactggag gcggtctggc tctctgttgg cattgtctga gctcgtcca 2820
tcgagcgcga gcggcccgta cttggtagtg gtggatgggg tgtccccagt gaaaggggtgc 2880
tcgagacatc cggagtgttc tgattcgac ttgtacgtg ggtctgtggt tccggggatt 2940
ggtcatacata ttcataattct ccataactcat cttcacccca gtcacgcccg tcgtaagagt 3000
acttcttttg ttcaaccag cgtttcgttt ttgcccgtt c 3041

<210> 3449
<211> 806
<212> DNA
<213> Aspergillus nidulans

<400> 3449
aaaggaagga aggaagaca tcgttgagt attagccata aaagaaagag agagccgaag 60
atgctggcta actcctccct gtggggagtt agttcggaat agtctgtaga aaacatttcg 120
gtgtatatag ggctttttct tgtcggcacc agcatccaga agaaactgga ccacctcggt 180
gcgcccgtgc tgaactgcag ccaacatagg agtcgcgccg tactcgtcag ccctgttcaa 240
atcggcgccc tgtgcgacca gaacacggac gatacccata tggccgcctt tcgaggccca 300
gaaaagggcc gtccctgcct ctaagtcctg atggttagtc tgagcgccct tttccagcaa 360
gaaagataca atatcaagat ggccccgttc ggctgctagc agcaacggag tcgagtccat 420
gtgatcggtc cagtcgacgt tgcacccatg gcccgatctc aaaaaggata cctgactgcg 480
ccagtttagt cccacgatgg cagcgtggtt gcaaccacgc cttatttgag tccgtgggaa 540
cataccttgg cctcaataac ttgctgtagt gcactacgtg acgcaaatca gcgcccgcag 600
caacaagaat acccaacggg ccccgattct tgttcttcat cgccgcgagg agcggcggtg 660
gcttcaagca tctggcgcca acataaagg gatccccgct cgtggcgagc cgctgacgat 720
gtgctgatgc tgctgtgcag gcagctacta ggctcggtac ctacgacggt cagattgagc 780
tgcgccgatc ttggagccga gggctt 806

<210> 3450
<211> 1167
<212> DNA

<213> Aspergillus nidulans

<400> 3450

caaaaggccc tgagccctcg agactttgct gacaccatta cattttacaa ttttctgtgt 60
acaactactc tgacgggata tggggtttga agctatcatt ctgacgcaac tttgtagctt 120
ctgttaattgg ccaccggatc aagtgcccc acaaccacta tctgtttggt gagctgatga 180
aggaatacaa taagaatcac ttacccatgg ccaagcttct ggattacgcc attggtgaat 240
gcactgtcac cacatacaca caacgacaat gccgattctt aaccgtccac cgctgtatcc 300
ctgtttgttg gaataatctc atgcgcaagt gctgtgctat ctactgcgag gaatccgatg 360
actacatgaa gatgggtgtc ctcaacggtc ttttcgttct aggccgtagc atcgggtctga 420
ttgcccacta ccttgatcag aagagactgc gcactggtct ttaccgccac ccttgggatg 480
acatcacgta cctgtcctcc gccctgcaaa aggggtggctc ggaggggtcgt gttgaggtca 540
acgtataatt ttttaatacct tttcttatta tcacattttc tctcggaaaag ggacctgggtg 600
ttggacacaa gcgaccacgc ggggtcataa aatacgtcag gagttatgat ggtctatggt 660
aagcattttt caaattagtt tatttctatt tttatttttt tttttatttg tcagtttcat 720
tgttgaatac accttagagc acatgagaca tgaatgtgga tgatttttgc gccggttaat 780
tgtagtatga tatagggctc caacgttgca aatagatgat aagaagcttt cactctgtac 840
atgttggttc agcttactgg cttgttgatg agctgggtgc caggggaatat agggggctcg 900
gaaactaaaa agttggtctg tgttctggtg ggcctttcgt acttagtaga ctttaaaata 960
gacctggcat taattgccgc aaccgactat tgggattgtc cgacaaatta atacactcca 1020
caagcgcaag tgcggaatac ctactttgga tttaccaccc tcacgcttgt tgcttttaat 1080
ttgcaaggat cttccccaat cccttcattt ttagtttgt tatactaata tttcgtagta 1140
attaaagtgg ggaggggggg gggttca 1167

<210> 3451

<211> 3079

<212> DNA

<213> Aspergillus nidulans

<400> 3451

atacatctag atattttaat caataggagc aggaattttt taagctataa ggcgtctcct 60

gacgcaagat tcagttctcg cagtgatgag ttccgccaat ccaaattcta agaatttcat 120
 ctaggctatg taagtccacg gtttccttat tggtagagagc atcaactttg aagtatctat 180
 cctaccatcg agagagaaaa tcaggaactt caagtccgct acataaccct gcgagtgtta 240
 caccacaaaa cgctccttca ttttcgatta caaggggtggt ttttctttga tatcggcgcg 300
 ccatgaaacg gtaaagggtgc tcagaacggg cgatagtttc tgctagtctg agcaaataat 360
 ctgagacttt ttattgcttg acggcactga caacgatatc gatgcctgta tttgggaggt 420
 ccaccgtcca caatgggttac ttatcttgaa aacttccgag atcgaagatc taacaatccc 480
 tggtagatgt tcaaaaggat gaaggctaag tgctacttga gcgaagaaga catattgggt 540
 agtatcataa acgttctatt ggaagctttg gggggagggc tgtgctgact gactgagaaa 600
 ctctgaccct gcgaaagagt gctgccagca tggttgatat tttgggacta actaagccct 660
 tctactttcc ttggaaactc gtcttgtaaa cgggcagcaa gggaaaaatg acaaacaaat 720
 actttatctt tgaaattgag caaataaaaa tctcgtcaac ataccacctc tgtttggttt 780
 ccaatccctc gacctttcct cctttcttcc tcatctatta caaatttctt ctttgctttc 840
 tccccacatc gattcataat ctgtcttttt acagacccaa aggcgagtat atcatctcca 900
 tatttccata acataacctt ctgtcgtctt taccaacagc tcgtcattac ttgtttcctt 960
 tccatgagca gcacaagagt gttccagcct acgcactgcc tctctgtcat ttgactgacg 1020
 cattggcccg aataggactt gatttcattc ttgactcaga cacgatgcct tggcatgcag 1080
 gtgacggctg gggaggtggt tccgatgaaa acagagaaga cgaagacaat gcggaggtgc 1140
 tggccaatgg gttcctggtg acaatcatgg taggtagtcc cttacctgtt atcatccctt 1200
 atacatccca tgagtcctct ggtattcatt tccaaaatct ttattccata aggtggctga 1260
 cgatgtgctc acagcagact tttataatga cgagaacaag attcccgaca atggccatgg 1320
 acacgataag acatgccgca agtaggcaat ccacaaaata ctccacgagt caatcgctta 1380
 tttcatggta gctgcaatag agaaggccac tttgcccgcg agtgccctga gcctcgcaaa 1440
 cctcgggagg gtatggcttg cttcaactgt ggggaggaag gataagcaaa tcctattcta 1500
 gtctggcttc ctctgagtc tctctaata caaaaagcc gagtgccata agcctcgtgt 1560
 ctttaagggt tcctgccgta tctgcaacca ggagggtcac ccggctgccg agtgccctga 1620
 tcggcctcct gacgtttgca ggactgtcaa caagagggtg aattgaagaa ttctcccttg 1680

gattcacatc gctgacacta tatacaggtc acaagacctc aaactgcact gagaaccgca 1740
aattcggctc caaccgcatc cccgacatgc tacctgagcg agcatgggaa cttctcagga 1800
aggcaagcta tgatcgagat ttggaaggct tccgcgaggt aaaccctgtc ttgctcctta 1860
agatacacgg tcgatgctaa cacgaagcag gggcttaaga tataactcaa ggccgttccg 1920
aatgctacat tcgctgacat cgaagaaaag atgcgcgctg aatcattcaa tatctacctc 1980
attgccatgg tgggaatctc acttatagac gccagaatga gcactaacac ttgtgtttga 2040
atataggaaa ggcagacgtc cgattgtatc agccttatca gcctccaggg aaagttgaac 2100
tgcacctaca tcgtcggact cttctacagc cccaggcccc agagagcaaa ctttcgtgaa 2160
tgctggcctc catcagttga ggagaatatt gagcgcctta gagatgctag tcttccttat 2220
gaacgacaga ttcccaaattg tagcaactgc ggtggtaagt tgcccgcggt agctaaatga 2280
acaaggccta atatttccag aaatggggca cagctctcgc agttgcaagg aggaacgagt 2340
cgtgatcgag cgtgtggaag tcaatgtgtt aactgcagcg aaccgggaca ccgcgctcat 2400
gattgcaaac aacctcgtgt ggcactagta cagtagagca ccttagattg tatattatgt 2460
ctactacgta cgtagttgcc ttttcgcgag tccacgattc taccactacc gttagtctcg 2520
tctaggccgc atatttcagc gttgcacttc gaaaattca attgtcacac atcctagcct 2580
tcaagaacac cctggccctt acagtcattg gcatatatga agtaaggtag atcgcccagt 2640
agtagtatta taagtagcgc aacagcgact atactctatc ccattcgcgc tctagccctt 2700
ttcgcaacaa gaaccatac taagagccct tgagcacatc gtcattctca agaagcgacc 2760
tagggccctt gtaccgtctc agcggagacg gtcccatggc accaaactta ctggaatagg 2820
aaccactttt ccggtctcag gagcagacaa agtccctgtt ttcgaaaaat cttcgtttca 2880
accataaggg ccttatttcc agggtttagg tcgaaggttt tgggggacgt attaaacttt 2940
tttaagccat tttaatttgc tgggacattg gcttttggtt atggaaaaat gggggtgggg 3000
ttttggtttt ttaaaagggg gggccgcggg attttgtttt taacctcatt aaggtttgtg 3060
tgtgcactat gaaaatttt 3079

<210> 3452
<211> 1095
<212> DNA
<213> *Aspergillus nidulans*

<400> 3452

cctaaccacg tcaatttcac ttgccagctc cattgggatac tttcgccaac ctttcaactg 60
cagcgtatgg gtcaagcgga gaagttcgct cttgaagaca acccaggctt ctcggtcttt 120
agctcgcgta atgctagcag catcgccgtc ttcactttct acaccaccac cagtataaga 180
taacgtcctc gagttgtcca gaactgcgtc cacggcagga gtgatcgggt cgagttcata 240
atccgactcg gaaacagagc ctctccgtaa gcctttaatc ggatgacgcc ggcgcggtgga 300
tcgacgtgag gaacaagtag acatagtctg ggaatcatat ctagaagcgt attgcagcag 360
aatcttttcc agggcgctga gtgcgagggt agtgtcagag ccctgcgaca cagtccctcg 420
caactgggcy ccatcaccat gtgcatcacc ctcgccgtca aagccattac cggagccgtt 480
tgtcgatccg ttggacttat tcgaatgctt gcgtttggac ttttcgcyag agagccattc 540
gtacacctga ctgaagaggt tatggcgcyga ctctctctca ctctgcttga gccagcggtc 600
aatgtcttct ttcgttaccg attcgctcgc attgggtact tggcggttca aagcgctgc 660
ggaagtcgga tagtgaaaac tctggcgta cgtgacctta ctaacagaca cgcgacgctg 720
tctggtggtg tttgcttcg aagtcgctgc agagtcctga ctgggggttct gggcgagggt 780
cagcctagtc tcgacaccta gatagtggcc ttttgcagac ttgccagaat ccatgaatgc 840
tcttgatatg ggccattgaa caccagaga taaagtgatg ccagaaagat gcgtagggaa 900
atctttgtgt caagtgggtg atgagatcat aagactacca gcgcaggacc cgcggaggct 960
actagatacg actactattg gccggcagag ccatgaatca aaaaaaaaaa atgagccagg 1020
cacgatggca aacaaaggaa ttcaggacac cctaccttga agctcatgcc tagtgaatga 1080
ggcatctcca agcac 1095

<210> 3453

<211> 4030

<212> DNA

<213> *Aspergillus nidulans*

<400> 3453

tcgcaataga cataaaccct aagcgaagtg cgttgcttgt tcgtagatgt atatgaactt 60
gcacccaagt tcccttgaat gcaatgcttg aaggtcacac ggccccggct gctccccgcta 120
tcgccagcta tagagatgca ggtagaatga cgtcgaccat attcttcagg tagtgtctag 180

gtgccgcaaa taaggaagac atgctggatg accgagcacc agcctgggca aggcttggtt 240
aggaagtaat agaccaacct tgaaaagatt ctcagcacac cttcaagaac aatccccgcc 300
tacttctatc aagaactgct gctgttttac tatactgtcg gaggtcctt tcagcttacg 360
ttaccaacga ccttagcgac agtacatgga gcggaggcac actctctcca tgtttatcga 420
acatatagat atcccattgg gtcaaagctc gtgggtacct aggtcatgcg tcatatcagc 480
gtggtttgag attatacaact gcagctacca cccaaggta cctagatatg tgtatttaac 540
gccccaaaaac tattgcacct ccttctgcc tattctgcac gttcgtggtt ttagaggctg 600
agccgaatga gtcaggcata gtctctatag ccgctcaagg cacgcttctc gttctcgtgc 660
tagttctagt aggaatctgc agatagtgtt tctgccgcac tattatacgc ttttcttggt 720
cctgctctaa atacaccatc cccctaatta gcttttataa ggcttttctg tcccacgttg 780
tcagttctag gctctttttg gctttctgaa tataatactt gtcaatcact cagcgtgata 840
aggttctagg atacggtgct acttgcaatg gccagtggtg ttgtatacta tattagttgc 900
tttgggactc gctttgcac tgaccttga tgctttagtc attgcctcaa tcaagttctg 960
tgtgaggttg ctcttgcttg catatctctg ttccgagaag ccttcgcac taacctcttt 1020
cgcttttttg tagcttggcg aatcaattcg gaacgatgaa aatcaattac catggcttaa 1080
catggctcgc ccaaactcag tgttccacag attattttct ggtcgaaggt ctccgtgcga 1140
tactccgagg gaatgaatct agtgactga ccttgcaacc tcacgtgcaa ccattgtatc 1200
acgttccaat tcatatatag gctcaccacc ccaagccatg ataagcatgt gacgaatctt 1260
gccagctcca tgtacgttat agaactttgc taaattgacc ttcccgaggg aaactgagac 1320
tgctgatect tgggcttgcc ataggaaacg gtatacctcc gcctctcttt gagaccacgt 1380
cccataaatc agacgtcgtt cccttgccga ccaactgtagc catacgccgt gcaggtaacc 1440
ttaaatggcg cttcagttgc gccacaaacc ccattgggtg tacagtcttg gtcgatgttt 1500
tcatctagtt gctgtttgag ttcttcaatc aacatatcag cgttgatgag gtgtcggttg 1560
ctgttccctc cctgccggtg cagcatgacg tttgggcagt taacatctag ctggtgactc 1620
tgttgcaggc caattagaaa tcgctgggtg cagaactgag cagtgtgctg ttggccctgg 1680
ccacggcttt gagtatgtag agtttctaac ttgcgtgctg aattttggac gcatgaaggc 1740
gatgaagtag cttgactaaa gccacgcttc cttcctctag cggctgggtc tgcacaggg 1800

tgccggtgaac aatcacttgg tgtggtgtta ggcagcgac atctagcttg agactgtttg 1860
 cgtgtttggc ggggtgctggc ggacggcgga gcaaaagagg atgacggtag atacagtggg 1920
 tcgtataatc tctggatgtt atttctgacg acgccacttc tgaggatgta tcttccgagt 1980
 ccagcggccc tgctgcagtt ccgatataaa gatctcggag aatatttcat caaagctcga 2040
 cttccagatg ggctgattat ggattgcttt attccgcctc tctgatcac gatattgcga 2100
 gcggaagctc atgaggcaca aacacaatat ccaagattgc ggtagcggc tgtagcaggt 2160
 aattgaagtt atcctcctga cctatttcca tgttgggctc acagcgggtg tatacagggg 2220
 gccaggttcg tcgtaatcaa cccgcagcag gaccagtgtc aaccataag tcaagtacga 2280
 gtactcgagc cctgcttcga gcataacatc atactcttg accacggatg agccagttag 2340
 ccgggctgca ttatgtctca gtttctcggg gccctcggct ggaatggttt tggatttgac 2400
 gaccttctcc caaagatcca ttggctctaa ccctgctcga agatttttaa ccgatagctt 2460
 atggggtggc ttatactcga ttgtcgtaag aagtgtactc ttgtcgggt acagtactgc 2520
 tgttcagaaa gtggtgtctt tgggtgttcg gctttgggtt ggtcagcttc gtccgcaaca 2580
 aggtcttag catgattttc aaaccgaact ccacgcccc agcgagactc aacttgagca 2640
 gcaggtattt tggggagctc cgtgataata tctactgacat aatcctccac accgaaattt 2700
 ctcatatc cgcaaataca gtctcgtgtc tattgcccgc tcgaatcgt tccccagac 2760
 ttccagcaca atgtggggcg agaatactcg tgccgcagtc tgacttgggt gttcaaaaata 2820
 ggagcaaaaca gagctgtaga tctcctgttg tttggattcg cactcagacc aatgctcaaa 2880
 gcggaaggga cagcgtttcc cggtagatgg ctgtatcgtc cctgtttag agcgaatcgg 2940
 tatctcaact ttcagagggc gatagaaaca tttatgacaa tattggatga gctcgtgaa 3000
 agtcgttggg tgtgtttgct tcttctctcg ccgttggctt tctctgcgt gccgttggcg 3060
 ttcctctgcc tgctcgtgcc gttcctctgc ttgtttcctt tagctctact ttccttagaa 3120
 agagcgcttc cagatctggg ctgttgctag tcatctggtt gatgtctttt gtcaaatgga 3180
 gttgatcttg atcgatcttc aacaaagggc atgtgaaacc gttcttctcg ggagcggctt 3240
 tcaaggtgca gtgaaacttc attaatgcc ttcgtgtgac ccatagacac ccaggaatta 3300
 tgcttgctt tttatcaata gtataatcat gatccaagag ttaggtccag agttctgttt 3360
 tgttctgaga gggaaatacg gaaagcgcat cagaacacaa tgccgtttgg aaccgccttg 3420

tatattgtcg ctctaaatcg tcgttaccoc agtttttaggt cttcttcccg ccaaacagta 3480
 acttggaacc gagcctatct ccaggggaagg aaacggcggc ttagacgact acctcaatcc 3540
 aaccgcgtat gagtaggggtg agcgcgacac tcgccccact gctcatccac tccacccac 3600
 aagctcacct ttctgaccog gggcccccg acttcaaaca agcactgctc acctgctgga 3660
 ataaggacaa tggctctggc gcccggtgggt tttgcttgat aggcattgctg gatacatctt 3720
 tgtgctgcat gatttaagtc gctgactga aacatgcagc atcctccagc gcacatggaa 3780
 gctgctgatg gtgactgcag atgcatttgc aagtcatact tgatgcctca cttatacatg 3840
 tcccgctgat tattccaact gactcatatg atgaccaaga aaagtacggg gttttggttt 3900
 gtgggatact gtcattgtgc ggttgcgaa tgatactccc ttacagcga tagctcactg 3960
 caccgtttat gattgtgaca cgagatagct tgattatgcc cagtcggttt aggggtgcagt 4020
 tcgagtcgcc 4030

<210> 3454
 <211> 655
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3454

tacaactttc ttggattgga ccagcgcgag atggttacaa ggcgcttcta tggatatttt 60
 gcatgatttt atactaaagc aaaaaaaaaa aaaaaaaagg ggggtctgtt agggctgaag 120
 gggccaacat caggccgaga caatctgttt gagtgcggga acaacggcag tagcgtgaca 180
 cagcatgctg ggctgggttt ggtatcatgt tggacagggt ttgctttctt gtcgttgcat 240
 ttctgtttc tgtttctgtt cccaacttcg ggttccctta ttccctgttt atctacacac 300
 gttttctttc ggtcatcatg gtacgtggct gttttatagc atggactatc gatatggatg 360
 gcgatgtgtt atgtttcttt atcctctggt cttttcccg cctcgatctg agagaaatag 420
 acctgtgatg cgagatacca agatctagtt atgtgtttcg ttagttgact gagactctgc 480
 ctcttttagtc gcaattgggt catacctacc ttacctactt ttaagggtaca gaagaatctg 540
 tacagcttta ttctgacatc atcatttcca agtaagccca tctggttgag agcatgacca 600
 tccaactgc aatactgcac tctcagcctt atcggaagtc acctacggga ggatc 655

<210> 3455

<211> 1774
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3455

```

cgctgctttc ggatgctgag gctcatcaca attccgatca tgaaaccagc ttgtatggcg 60
aagacaatat cgacgactgg gacgacgtcg atgatgacga cacggaggac gatgatgacc 120
cgtactctgg gagcgtgctc aaggccatgg taattcagat gcgggtgatg gaaaatcatc 180
agaacggaaa ggatactcat gtacgtgggt tccaagtctt cgcgagggat gacaaccgtc 240
gacgtattgg taatgctccc tccgcctctg cagatggtcg agtccgcagg cacagtgcc 300
ggaagtctct acgtgggtgct aacgatgatg acggccgggg cgaaggcaca ggggccgggtg 360
acagggccaa ggtaacaggg ttagaggagc cggattggat gggagatcct gtaattcgat 420
gatcagattc cgtctattct tatttcactt catgcactcc aggaggaact gctctctgga 480
gtcgggtggac acacattctt gcattacgga cacagtttgc aggcccgttg gcgccctatg 540
ttgggatacc cgcttgctaa ctactatggt gtgattactc atgcaatgac tgccatcatt 600
gcaatactgg cattgataaa aatcatggag tgcttctgat ggtattctat ttaagtcgtt 660
cgttatttca tttggcatgt ttaatgccac atatgacaag tacttttttc gaccagtcaa 720
tcttttcatt atgtagcgtc ttacacacc cttggcgcaa tcatttattt cttgagaagc 780
ttctccagct cagcagcaac agcatcacca acttccttgg tggaagcttt gccgccaatg 840
tcaccagtgc ggacaccggc ctcgatgacg ttgctcacgg cggtcgcaac cgcgcgagcc 900
tcttcgaaga gggcgaaaga gtactgcac atcaggccga ctgagaggat tgcagcgacg 960
gggttaacaa tgccctttcc ggaaatgtcg ggcgcggagc ctagtaaaat caattcagca 1020
tatcaatcct cgagaggtgc aataacatag gaatacatac cgtgaatggg ctcgtaaata 1080
ccgttaacct tgccctttcc atcaggaatg ctactcagac tagcgctggg aagcagaccc 1140
aaagatccgg ggataacgct agcctcgctc gatataatat caccgaacag gttgctggtg 1200
atgacgatac cattcagctt gcgaggggtc ttgaccataa tcatggcagc ggagtcgata 1260
agctggtgct caagcttaag ctgaggggaa tccttcgcca tgatttcggt aaccgtctta 1320
cgccagagac ggctggtagc aaggacattg gccttgcca agctccacac aggaagagga 1380
gggttggtgt gcagggcgag gtgggcacca agacgggtga tgcgttcaat ttcagcgcg 1440

```

gagtaggggtt ccgtgtcaag ggcgaacgct gccgtcgtct tccttgcggt caccgaagta 1500
gataccgccca gtcaattcac ggatgatggt gaagtcgacg ccgcggcaga tctcaggccg 1560
gaggggagag ctctctacta gtgagggagc ggcgaaattg catggtcgca agttggcgaa 1620
agtgccatt tccttgcgca cgttgagaat accctgctca gggcggacag caccagttcc 1680
ccattcctaa taaccaattg atacctgatt agctacacct tcaatacatg gtgtatcgcg 1740
agaagcctgg gatcacatac tgggccacaa tgga 1774

<210> 3456
<211> 1399
<212> DNA
<213> *Aspergillus nidulans*

<400> 3456
tcggtgttga aggtggttga tcccaatact gcggagaacg tggatctcag gaatatccgc 60
attgtgaaga aggttggcgg aacaatcgag gacagcgaga tggttgacgg tctggtcctc 120
aaccaggggtg taatcaagag cagtgggtggg cccacaagaa ttgaaaaggc ccg gataggc 180
ttgatccagt tccagcttag cccgcccagg cctgatgtac gcctctgcct aaaaaacttt 240
tgatccgata ctgacggttt acagatggag aaccagattg ttgtgaacga ctaccgccag 300
atggacaaga ttctgaagga agagcgccaa tatttgctca acatgggtcaa gaagatccaa 360
aagacgaagt gcaacgtcct tctaatecag aagtcattc tgcgtgatgc tgtcacgac 420
tttatctaca cttactttcc cgattaagat tctccgcctc aagacattga cgtgaccagt 480
cgagttcctg tgcagagttt ggctgcatgc ccgtcgccaa cgtcgattcg ttcacggagg 540
acaagcttgg gaccgccgat ctgtagagg aagtccaatc gtctggcgct cgctacgtca 600
agattaccgg catcaaggct cccgccacca cggccaacca gactgtctcc atcgttgccc 660
gcggtgccaa caacctcatc cttgacgagg ccgaacgctc gcttcacgac gctctttgcg 720
tcatccgctg cttggtgaag aagcgtgccc ttatcgccgg tggcggtgcc cccgaatcga 780
agtcgctaac acccttgcaa agcgcgcccg ggaactgact ggcacagagt ccatctgctg 840
gaggcatttg ccgaagccat ggaagtcac cccaccactc tcgctgagaa tgccggtctc 900
aactccatta aggttgctac agacctacga caccgccacg cccaaggcca gcagaacgct 960
ggagtcagca tccgtagcgg tgggtgtaaaa gacgatatca ctgaggagaa cattctgcag 1020

cctttgctgg tgagcaccag tgccatcgaa ctggctgagg agacgggtaa gatgattatg 1080
agaattgatg acatcgccct ttcaaggtag aggggtgacaa actcaaagca attggagcca 1140
tatagaaaaa agtgaacatg ttgtcatgac acgtattaat atcacatata caaatcatca 1200
ttgtattcag tcattacact aagcttcaga ttcccataag tatttaaaca ttttctatac 1260
taaaagaacg gcactgggtg agacaacggc actttacaac gtccatgact cagattgtaa 1320
tgatcgccat attcagaaat aacttcatac ctgtttgcaa gacttggggg cacggcacca 1380
gattacatga ggtgccatg 1399

<210> 3457
<211> 221
<212> DNA
<213> Aspergillus nidulans

<400> 3457
gagtgcacac gtacttcagg ggcttccagg gttccgattt catcctagaa tgtacgtttt 60
cagacgcagg gaattttcat ccctcagggt ggcttctgta tcatccagcc tggcctatag 120
taggtatcag taaatctctc ttgacttaag tagatgctgt taggtccacc ttacagataa 180
agaaactgag gaatgcagag gctggggcca caacaaggag a 221

<210> 3458
<211> 6508
<212> DNA
<213> Aspergillus nidulans

<400> 3458
gactgcatgt gctcaattgc atcagagacc attagcactt gcatggaaac agcatcaatc 60
agctgggtgg ggctgcctaa aaacttctcg ttctttaccc tttcgacgac gtcactaagt 120
tgcggaata aggccttttag tttgttgtag gcttctgaaa ccacatcctt agggttaacc 180
acatcctcct cgtcgtattc actaggaaca gggaagttat agtcccaata tgtgttctcg 240
caatgtttct ccgttaggta gcacgggaaa tgcttcacgt tcttccgctc aatatacctc 300
tgcgccactc ccgtctccgt gtaaagggtc gccagaagg cgtcggggta ctcaagcgctc 360
cagtatacag attgtgaata ccgggcgtct atagtttggc actgccccct cagcgagtaa 420
tccggcggac agggctgggt catatttcga tacctgtatt cgggcgtctc gcagtggacc 480

tctgggttat cgcagttgcc ctccaggata cagtcgtatt cctcgcaata gcggcagtct 540
accttggggt gctggctatg cttcttacac atatcgaca cttgatggtc tctgtgacga 600
gcagctgaag tagctcttgc cgttctcgta cataaagttc tcgacaacct ttttagacgc 660
agagaccacg gatttggcat aggttttgaa tttgccgtcg tagccatctt tcatcaaate 720
atcgtagcgc gcgagtgcgc aggtgaagtt cttctggaga acttcgagga tgtattggcc 780
aagacagagt tcatctatgg tgccgaaate cttctcgatg ctttccaagt catggtatga 840
gccgctgcag tctgggtcat caggcaaggg tggaagaagt tctcgcctc cctctcccg 900
ttcatagtcg tagtattcat catctgcata tgactgtaa acaacagccc aatcaatgg 960
tcccgcgaag ttgtagttct tccaatgtaa gcgcggggt tcttttggtg tctgtctcat 1020
atccgccacc cactgagtgt ctgtcaagca ttagcagacc agcttttgcg caggagctct 1080
ggacgtacat accattatac accataatat ccgagttcga agctccatcg tgccacgttt 1140
ggacgttgtc accaagaate gcaatttcat caatctcggc gttggaaatg tagccaccag 1200
tatctgtaca tacacccttt tgctgctgga gagttgagcc ggtcgccttc aaagaagcag 1260
ttagccccg tgcatecttt tttttgctca taagaaagga gcgaccgtag ctggattccc 1320
ctacaaaaat cttgttggtt gggactccgc cttttgtaac tgcattgtgc cgccagcaaa 1380
aatatccctc acgcagaggg tagtaatttg acaagcatgg atcgcgccac agcgaaacta 1440
atagacaggg ggacttactc aaagaaagag cataggttgt ctcagtaagg ttaactgggt 1500
ttagccacgt tagccacgt ctctgaagaa tctggacaca acgcaccgtg acttcgtagg 1560
cagtttcccg tcggacagcc ctctgttgca tactggttac cggcatccca tttgcctttc 1620
ttatattagc cactggacta aaccgtgtgg agcccacctc accgtggaga tcataagcca 1680
tgaacacaat gtaatcgagc tgcttagcca tctgggcaat aggaaaggcc ttgagatacc 1740
agtatgaagc cgggtgcagca atgagtaagg acttttcttt ggctagctgc ccacgcatga 1800
cgataagaaa cttgtagtaa ttcgggccgt cggtttcaag gcccggtggg gtccctggta 1860
tgtctatggc ctaaagttcg agggcaatta gtacagagct cagccaataa tctcatatc 1920
ttccctgtaa ctggaagtag acctaccct ggatattccc aatcaaagtc cacaccgtca 1980
agctcgtgtt ccgcaacgaa agcagctacg tttgtcgcaa agcttttgcg atttgggtga 2040
ctcatggcct cacgaagtat attgtatgtc tctggctcgg ttgaatagcc ccagcctcta 2100

aaggatttac tactcttaat attttccagg ctcttgaagt cttcccaactg cttgtacggg 2160
tcaacgatct taacacacca gttcgacgcg tctacttcag caaatgcccc gtgaatatgc 2220
gtgtagctta aatcgggtatt tgcattttct gctcgtagcc agagacactt ccggttgaag 2280
ttccaggctct catagtaacc gattcagcca tagttcatcg gggagttttc agtggttgcga 2340
atatcaacac cacagctgga ctcgagtgtg cacgtttgct tctacagcat ggggcgcaac 2400
cagaccttat ggatttagac ggttacaccc ctaaagacag agctgagcaa gccaagcagt 2460
ggaatatgct gaagctgttg gaggggtgcga tagctcagaa gtgaatttgg agactatcct 2520
gggctgatac cttcgacttt taattgttct agaccgctcc ggccacaaca attttttcta 2580
ccctttcctc tctgtcagcg gacagaattt gtttcttcta ggcctctcaa acgtggcgat 2640
tcgtctttcc actaatagcc gaggtagtag acctgtcggc ctcgttcgag tcccttcttt 2700
ctccagcggc tttgccgctg gactagaatc tccctttgtc tagcgctaga aataaatgag 2760
gtgttggtgcc acaatgcaat atcaatgtca ctgcgacaag ctcgcggcct ggcggtgcaat 2820
ttcccacatc tgcggtttgc gggttggcca tactgataat ctcgcgatcc gcaaatcgat 2880
gcctgggccc tgcagggacg cgttccagac cctgcttggc gagaatttag gtcggcctgt 2940
gccgcagtag ggcgggccga cccgttctct gtgcgactcg cgcaccgtct cttggcgact 3000
tgacgggcta ggtcgagtta caattgcccg gccgtaagcg agtgaatatc acgaatcaat 3060
gctgactatg cggaatgtga agctttcaaa atctgtcagc cgcgaaacagt attatcagct 3120
gcaggctgta aatgaaaacg cggccttctg ttgtacttaa ccaggaagaa cggataattc 3180
aatagctttt gcaatcatat caaaggtcga atgccaatat aaacaaagtg ggctcctaaa 3240
ctctgaccct caagcacgga ctggccttgc acttttaciaa gggatcaacc tcggccggtg 3300
cacgcattat gcgggtgcag atactgctgt cgcaagggtt ccaaacgcct tgcctcagga 3360
gatgtctgag gggagtgcaa gagacccgac tcattattct attttggcct ccatgaatcg 3420
ttgaaagtct tgcgaagcgg aagatttttag ggtctgcgcc gcagaaaacc agtggatatt 3480
agccgggggtg tgggtggttg ttggtctaca gtagcctcat aacgttaaac ttgttagcac 3540
ccagtagcag ggaaagctta ctagctatcc aggggtggaaa gcacatttct ggtccaacga 3600
aactctaag tgcaaatcaa ccgaaaggga aaaaaagga gccatgttct tggcgaggaa 3660
aacctggaca tctctttatt cccggttga aaaagagtct gtctcatgg taccttggtgta 3720

aaatcctaca gaaacatttg gcaagggacc ctcgtcagac tcaaacagtg agatgctaaa 3780
 ttagggagta gtctaccatt atcgcttggt gtccgctctc gccgctcgac atgagctcgc 3840
 ggaaaccctt ttctgatttg cctaaacaat agacatgcat attcatgtcc ttggcactgt 3900
 ggcgagctgc tgaagcaata tcggagcaaa cagtatcctt acttatcact ggtgttaggt 3960
 ttacctggcg tgtctgcccc gatttggaca tcacattttc ttggttctca gtatgtatat 4020
 ctatgtatat atgtacatgt ggtaagagga tcggcggaat tttacacctt cagggattgg 4080
 aaaatcttac gttgaaatgt ctacgaaacg ttcaatcttc ttagcttcgg tgcttggcgt 4140
 ctcaatgtct cttacaaccc gcggatatgt tcgtcgcgat gatacacgc aactgcctta 4200
 cggcccagaa accactccct actgtacatg gtggattgac aatgacggat ctagttcctg 4260
 tcaggacatt ctctccacct ggcttatccc tctgaacgat tttcgacgct aattaagtgt 4320
 cctctggttc ttggggagcac ggctaaacta acatctccta gaatccgtcc atcacagcta 4380
 gctgtgaagg attcaagccc ggcaagtcgc actgctcga agcgtgggga gagcctgcgc 4440
 ctaccaagcc cccaacgacg atcacgacgc cgacaacaac cacaaccact actaccacca 4500
 agactggaaa cgcccctggc acgaccagg ctggccagat agggacctgt aaccggtggg 4560
 atctcgtcaa gtccggtgac agcggcaacg tatttttggga gaagtattca ggtctgacct 4620
 tggccaactt ggtcagatgg aatccggcta ttgggtctcg atgccagagc ttatgggttg 4680
 atacttatgt atggccttcc tatctctcca acagtcgcc ggtactaatc ttacatttca 4740
 gctgtgcacg ggctggaag gctagggagc acctactccc tccacgacta ccacaactat 4800
 gactgtcccc gtttacggca tcaactaccc ctcgcttatt caaccaggaa ttgttgatga 4860
 ctgcaacgac tttcaciaag ttcagtcggg agacacttgc gccagtattg ccccggtccg 4920
 cccgggatct cgctctcgca gccggcggac ctcgctctca agtttacctc atggaacccc 4980
 ggtgtgggaa acggatgtag ctcgctctgg ctgggttact tcgtttgcat ttctcgggtg 5040
 ggtgtgaccg caacgattac gatgacaaca actacctccg gtaatggaat cttcacacca 5100
 actccaacct taccggggat ggtgaagaac tgcgacacct tttacctcgt gaaatccggc 5160
 gacgggtgcg cagctatcgc ctcaagcaaa gggatcagcc tttcacaact ctacgcctgg 5220
 aaccgaatc ttgggtctga ttgctctgga ttatggtctg agtactatat ctgcgtttca 5280
 atcgtcgggg tgaacccgac ctcgacaaca aaaacgacca cgaagaccac gacgtcgaca 5340

aagggaaatg gagtttccac ccctacctct attcaggcgg ggatgacgag ctctgtaac 5400
aagttccata aggttggtgc gggagatcag tgtgggacga ttgcgtccaa cgctgggatt 5460
acacttgcca atttcttgaa gtggaatccg ggggttggcg ggttcgcatg ccggtcgttg 5520
tggttgggggt actatgtgtg catcggcgtt ctttagcaaa gctgctttat attgttgatt 5580
caataggtct aaggcccttc tatagcagge gcatcgacct cacatggcac actggggttag 5640
cattcattgt atgttgtagg catgatctct aggcagtaag ataggaacga gaagcgcttt 5700
gaccataatc catatattac cgtgatttta tgtattacca taggaagcat taaaacagct 5760
acctaataca gctaatagaag tatccaatca gaccttgaat gaaaccttgc actaggcgga 5820
aaatcggccca tgaaatcgac tatcaagttg gttcttaacc taggaactag atgtttaata 5880
acaccgtagt ttatttgcac taaagtttat cgagctttgt atcagagcac ccatcaagct 5940
atthttgttg ttagttgtta gtcattgact agtccaattc ctgcattgct agcagagggt 6000
gggtgtagatt gagtagggcc tacactgcca tagcgcttgc caccagatgc tggtgcaaga 6060
gtcctttccg ctacaacctg gtcctgtgat aagaatgaca gtccgcggaa tcttgactgg 6120
gcaggcgtaa gccagcagac catgtggatc atgccttgct taacatctac acggtgcggc 6180
ccgttcgggc cgaacgcttt aatcgctagg gttaacagat agggcttcta ctgattaacc 6240
cagagatcag aaccctgct actcagtcgg tttaatacat caaagaaaag aagcaagtct 6300
tgtataaggt gcatagatta agctattcct actgtcatta atagcaccac aacctacgtc 6360
ttcggttgca cgtacctgcc atcatcgcca acgcagcctc ctagtctgtg cttctgtttt 6420
gaagctacaa gtggctatgt acacctgtaa tacagagctc ataccacgca tttttttttt 6480
ttttgaccag aaaaatttta cctccaat 6508

<210> 3459
<211> 1719
<212> DNA
<213> *Aspergillus nidulans*

<400> 3459
atcatccttg accagacttc gtcgctttcg atgcattgcg acaatggata cagaataacc 60
agattgtcaa tttctttacc tgtcaagtgc gtcattcaatc tcaatagttc tatatctaca 120
catgaataaa tcataacctt tcaagcagtc tccctaaacc actataaacc attgtaagat 180

ctatgtattg tcttgtcatt caaatgtcga agtggactag cacagagatc tctaaaacca 240
 tcaaagggct caagacaacc gtccataaca atacagacca gtggctccct tgcaattgct 300
 attatatctg tcccagagtg ttgaaactaa ctagaggacc attatggtta cgggcaaaga 360
 ataaagatag actttgtcaa ggctcttcag agtttgtcca ttttccgagt agactctctg 420
 gggtttgagt caatgagtct attctaaaga atggagatac gctttgcaat gatagaaatg 480
 ataaggcgaa gcggttccgc ctttcaagga aacttgtgaa ggagctcgat tactcaaaag 540
 agtacagaaa tatcctgaga cgaaaagccc attgtctctc gcggagctaa accccaatat 600
 agatgcagaa ttaggccagc accagttcta tcaaataaa accactcgag agagaagaat 660
 ctgacgtgag ctctttgtct tcccgtaca aaagggttaa gactttgtac ctccagcaca 720
 taggtatagt gcaggataag aatatggaga agtactaaat atcatgtgca ctttacggct 780
 tagcggagag accgagcctt agtttagata tgaatgtgct gctgagaggg attttactgg 840
 aacatgaggg agatgaccat gcagettcaa cccagtccc tcggcctctc ttttccatc 900
 tctacgacaa catctataat caaaagatca ctcaatagat ctccctgaga atgtgatccc 960
 tagccaagca cgtctcgac tccaatgtcc tatgaatagc ccatacttcc cagcccgcaa 1020
 tagcctgatg gcattcggac gactccacca cccaccgagc caaacggtc tcggatacaa 1080
 tgtaactatc aacagggcag gaaggctgtg cagaccacaa gagctcagca tttgatccaa 1140
 ccagagctaa taatgcaaac cactcattgg tggtagcaag ataccctgtt ctgacgctcg 1200
 cgggttccaa agcctatggg gtgagagctt acccgaatt tgggtgcaatt gcgggggaaa 1260
 ctttccttgg tagtaatggc cagggtgac cttaaagctcc ggtttgacca tcgctgcatt 1320
 tcttgatggg gactagttcc cggaacgcca acgagagcta tcatcgccc ctatctatgc 1380
 ttaaggacac atatgcccc cccgggttac ttccaaacct accattacc ttggcatcaa 1440
 ggcctcctct cccactccct caaatcaacc actctctgca ctctctcta atttactcct 1500
 ctgctctccc ttctttacct ccccaatctt tctcttacc cctatttcgc cccctcctct 1560
 cttcactttg gtcagccttc ctccccctcc cccaccttc cctctctttc tcttcacttc 1620
 ctcttctac tcaatcgctc atattaccat atcccacatc actctctcat taactccacc 1680
 tctcaccctc cctcttctc tgactctccc acaaacatc 1719

<210> 3460

<211> 1332
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3460

gagacactcc agggggcgga aggcacgcgt atttctcgtg ccggagctcc ctggtgctgc 60
 gaggggggag tccttgctta tagggaagge gagctggttg atatataact cgacgcattg 120
 ggcgtgagtg gctaggatat ctagacatac cataagcctg attcttatag ccgtgctgct 180
 gatacatgac ttaccaatct ggctcatctc cataggaaac gaagcgcgca agtcatgcac 240
 ctccccccgt aacgttctaa gatacagcaa acccggcgcc gaagccgcag tcgctccagt 300
 gcgagtttca tcttgctgcc ggacatcgta catcgcttat tgagaagctg cagacggact 360
 tggcacacaa atcgctgtg tgccggacac gcataagctt accgtaggga gccggagcgc 420
 ctcttccatc tgcggtgtgc atcgaagggg catcttggcc gccgagatgg gactaaatac 480
 tagtcaggtt aggtagggtg gcttttacia gcattcaaag gagagtacgc acttagaact 540
 caggacgaaa catgccagga cggcccggcc gtcceaacag tccgtacggc gtttcatcat 600
 ggctcggccg gttctcgccc gtgcgcctt gagtgatcgt catgataagc tgcacgtcct 660
 ttgaggacgg cttgaacagc cgcaggtcat ataccagcga gatggcaagc atcatcagcc 720
 gcgacatcag gtctgccctg cccaggaaag ggtctgtgct ccatgccaaa taggttagcg 780
 tcgccagcag cagatcgata gtgcactcga ctttcaagaa cgcagaactg aacagcagcc 840
 gcttcaattc ctcaacctgg accagccggt cctgcgtcga aaaggctcgt accgtgcaga 900
 tggcctgata cagcaaaggc cggttctgcc gcagatacca gctcgtcata tcgggggtca 960
 gattgatgaa cgggaacgac ggcagcatcc tcgacctaaa gaaatccagc cgtctatcag 1020
 cctggttcgg tgacggcgca ggcgtcgaca ggaagacctg attctgagcc ggattcgaat 1080
 ttggcgagac ggcagccacc gactccggcg cgaatgccgg cccatcaccg aggccagcgc 1140
 tcgtgctggg cggcgctact agggcaccgt tgctatgctg atagcggtag gccgagtgga 1200
 cggaatcgcc gttcatgtgc atgttaacgg cggccccatt agaccaata aaggactgca 1260
 tggcggaaag tagactctcc atcttgtctt ccagacgggc aatccttctg tcagagacac 1320
 tggccgtctg cg 1332

<210> 3461

<211> 1722
 <212> DNA
 <213> Aspergillus nidulans

<400> 3461

```

aaactccgaa aaaatggcac cgaatccata ttttgtccca aaccttaata gtccttcaa 60
aacctctttc ttaaaaaggg ccgtcttcta aaccgctcct ttattgtaaa ctcaaaagaa 120
gacattctct accttgtctt aactatgcca taatcccgtc aacctcgcg aggggtacag 180
tcttaaaaaa catccaaacc ccgatttggg tctcaagcga aggtcactaa tgcgactttc 240
ttcaagtccg caatgggcg ggtgcatgaa gggatgccg ccggcaggaa agaggttttg 300
at ttgtgaaag tatcgggcaa tgcaaagtga tctgtcgac ctattatatg atgttccag 360
aaagacttaa tgagttcgtc gcgaggcttt gttgctttcc agctctggcc tctgtgccct 420
agggcattgc gcagagtacg ttcttggtcc ttgagcaggt ggaagtactg ctcgatcgag 480
aagacgtcgt ggacatccat gctgtaaaat cagagagagt ttcttctggt ctctaatatg 540
gtccattgaa gcagtttctg aaaatatggc aaaatggcaa gaggagtttg tgtttgtatg 600
tttgtgttat ttcttctgtt tttgttgta gtaacttttg cattcactac cacaacatga 660
taaaccgggc attttttaag caattacaca gggcgatct tttggtttgt ttattcgact 720
agtgggattg tacgagttct gtggtctatc tcgcataatg caaataacca ggccttagat 780
agcttcatgt ctgagcactg aaggacgtac cctatctagc tgccctagat gacaactgca 840
gttttcctca gtaaagactg cctgagcggt tgatgtatga agcagcaggg tattattgtg 900
ggtgagagtg ttttctagcg tgcggactca gacatattct gtcaaggata ggatttatat 960
accgtgcttg ttcatgacca gggcgtccca gttatacagg gtgcgaagct ctctgattcc 1020
ttcttccgca gagagacatt ccaagagcgt tcgataataa gcaggatcct gcagtcaagc 1080
gtcaagtata ttggcacctg caagcacctc cccattggg agcggtcata aagcaacagc 1140
acctcgggag cttaatgttt agcatacaaa acagctggag gcctgggtaa gacaactgga 1200
gtgataggga acagctgcat tatgagagcc atcaaggggc ttctacgttg cgccgtccag 1260
ggtttctctg ccagtataag gagcttgccg ggtgttaacg ttgttttaac gttgtcaatg 1320
gaagacgaca agctcggagt cttaaagaga aggcaatgac gctcattttc tttgagcctc 1380
aatgggcctc actgcaacgg gaggctagct tcgggagtc ttctggggc tgccttattc 1440

```

ggggcggatc atacttgagg gtgatagagc attcgctcta cttgccgttg aagctgtaga 1500
 attgtaatcc actctctatg accagaggct ttgtcaatag taaaatccgg tgagtgtcat 1560
 gttacggatc agaggagatc tcatttatgt tcttggctat cacagatgag ctccgcactt 1620
 ctctgctctg ccctacctat caagcttact ccaggctatg tgaaacttac taaaagcaag 1680
 gaaattattg caccgcggta ttgtggcgtg ctgaatgcag aa 1722

<210> 3462
 <211> 3676
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3462

ctggattgaa gacgaagacg caaggcctcg aagcaatctt tcatctcact gcggcttttt 60
 ctttctgcc a gtttatgcgt aactctgggc tccggcggtc tgctgtaagg cgtgctgcc a 120
 gaatgttggt ccgcttcccc tatgagacca cgaacttgct tgtgctgtaa agtgtgggtg 180
 tggtagcat ttgcaggtag ttctgcactc aattagctca tgtcgcgact gggctctgcg 240
 catgttgctg cctaccttgc tgtccgtggg gcaaacggga ctccggagtag ttactgtaca 300
 aagattctgt ggcacttggt ttgcgagaga aggaagctct gtcaaagat tgctgctgctg 360
 tggagacgtc agggtcagga aaggcgtagg ctagaccggc agttggagcc tctgcgttgt 420
 agatttcgga tcgaggattc gaggagatcg cgggtgctgt gcggccagcc gcaaaccac 480
 ggtgttcacg cgatgacaaa ggagacaagg gcgaagtccc tgaataccga gggccccggt 540
 aagtgttggt atcagtggag attccccgct ctctttgtaa gctcgaaacg atagaggttt 600
 gcgaggcatt cgtgctatgg tacggagacg tagggttaat ggccaatgag ctaattccct 660
 ggttcatgct gctgtcgaca ctactgcgac gggattctac aggtctcgct ccaactgttg 720
 ggtgagaagg aagcctccta gttttggttt agagagggca atgcatgagc gggttgcgaa 780
 actaaatttg gagacggctg tgctcccgcc gaaggggggg tagtattgtg cgactggctg 840
 tacggggacc gatcagagac atacgaaccg cgctgggggtg aaggttgca cgaagtgagg 900
 aaggagagcg taggttggtt ccccgttcca tttgttgccg tagagtaggt agaggatcct 960
 agaccaatta gttgttttat ccgcgcggcg atgtcgcgct gaacctactt gtactttgag 1020
 gcatagacca attccccgag tcacgctcga tcgtattcaa agaagcgttt ccagggtgact 1080

tctctgctgg cgccggagtg tggcccatgc tggcagtc aa gtagatata gaagggagag 1140
tttgcaaga ggtcgtgaca ggaggattgt gcacaccatt atatgggccc catggccggt 1200
ggttcagagt tgagtccatt gcaagattcg gtagggatga atgagtgcc a gtcgataga 1260
tggaagagtc aaagattctg agacgagcgt attatctcat gttccagcgc gcgaaaacga 1320
ataccaaggt gatgtatcaa ttgcgggtccg tcgcaagtta tgcaaagcgg taatcaatgc 1380
gtgggtatcc ggtcgtggta acggccgcgt gggatgaatac tggaatgcgc taatctcatg 1440
taaacgcgaa accaaacaca ggtgccttct tcaaggacta gattgagatt cctcgggtcg 1500
atgctccctc cggtttgcga tgcgcccgcg ttatcccttc ctgcaggtca cccaggtcaa 1560
tgtaaacgga tggcgaatcg tgagcggaga agcactgagg aagacaaccg ggaacgagac 1620
cgaaaagcaa tagaagttga gggtcgatgg aacagaatct gcaagggaaa ggaggatgcg 1680
tgcacgaagg gaacggttgt cgatgggccc taggggaaac ggaggcggga cgtggtaata 1740
attcgaaagt cccgatacgg agaacgaacg agcaaaaaga gtgggggacg ttcagaggggt 1800
caaaaaatc tgctaaaatg agtccgagat ttagttcgag aattatcgag tcgaacgaga 1860
gtcaagacag aggatgatcc caagttcttg agctaggagc gtggacggct cgttggtttg 1920
cagtcttgca gagcgagagc gggtcgctta ccttttagtgc agacgtttcg actttcgggg 1980
aagaacgtgg cacgagatct agaaggacga acaattgggc agggacaac tgttttagggc 2040
aaaggctcca gcggtgacca gccagaacga agctgcgggg agaagagagg agaggagcaa 2100
ggagctgagt caacgactag gaacagtcca gcagaaaagt gcaacggggc gtggacggag 2160
aggggagaga ttgcggcgag ggtcacactg tgagtcgcga caattaccgc cagggcgtgc 2220
aactctggtc cagcgggatc tgaaatctga gggctctgaa gccgaagaaa aagcagctga 2280
cggggtaaa atagaacaag actgacggaa gttgagcttc agtcttgaca gccaggtcaa 2340
gtggtgagca atagcggcag aaatgattct ggctgcttcg caagtaaaga gtagcaggga 2400
gtacagaaaa tcaaggtag gatagagaga ggataataag aaagccgatg acaggggagc 2460
gtttttcttg ttctttaata ttttccttaa tattttgctt attatttcct ctttttcttt 2520
ttattttttt cttttgataa aaccgtgatg acgaccgaaa tgaaaggta gaaggacagt 2580
gatgcagtgg acgacgtcc tgcctcaatt tccgtatggc agccatcaac gtgccaacca 2640
ggagtcctgc ccaagtcag atttactcaa ttcaggtctg gtaggtttgt gcttttactt 2700

ccagccgtca accgggggtcc cgaacatgta cttcaaaagg ttgctgtgcta cttcgtcttg 2760
 tgttttagaca attccgcgcc agagagcgct tacagagagt gacactgcgc aggcactacg 2820
 ggaaacaaat tgagcaaagc ggactgatag gtgcttcttg gcggcgcatc caagctctgc 2880
 ctctgtggact ggccacctgc gcgcaaggtc agtcgatgct ctagtgcgagc tttcaggggc 2940
 gtctgaaccg aggaagcgtc tctgtaatgc gtacgctgcg tacgcagcgt acgcgagcgc 3000
 gagctttact ttcggagctt cagacagcgc ctcttcgggtg ccagtgaagc gactgaaggc 3060
 gaggaaagtc aaggcgaagc agccaagcat ctaatgattc gcactacgac tgcggaccga 3120
 attatcgaga attattcgac gcccagtgtc caccgccacg aggcagtttc tgggggtggat 3180
 ttcggactcg tgtccagccg cagctgctgc aactctcggc tgccatttgt caacgatcca 3240
 gcgatgcata aataattatg gcatcttaaa tgccaggcac caggattcgt tcagccgtgg 3300
 gttttcccg caatccccca catggaagag gatcgacggg caggcggcgc gggtgccaga 3360
 gtcgagcacg ccatgctctt tcatatcccg cgcaaaccag gggtcacagt cctagataga 3420
 cgtaatcgtc acctctgtca tgccttacgt gccttacggg gcgacgttcc tagctcattc 3480
 ctcagtccgt caataatgga acgatccgtt ggacggcagg tcatcagacg caggttgggt 3540
 tcatcacaac cacggggcag gagcaggaat caagagccat ttgccgtct tgggtaatcg 3600
 aggcgcctgc gttgggcaat tccgatgccg atccgtgcc aagacagga cttgattgca 3660
 tgctcgtga gtgtga 3676

<210> 3463
 <211> 1756
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3463

gaacaactta gataggcgag gtttaacaag cggggaggta agaaaggaaa agatagtagc 60
 aaataagccc gaaattaggt aacttaaaag aggatagatt tgaagagtca aacaaaaggc 120
 ggccattgct ttgtagagag atagtgcgag aacggtagac cccgccaaga agtatgagcc 180
 taacataaat taagaagttc ggcaagcccc cggcaacccc cgagtggaca accggggaaa 240
 caatggggga gcaacaattg taacccttgg aaaaaggggc ccaagcgta aaaccctagg 300
 taccctaaag agtttttact tgaaatttgc ctatgccagg acaaaattgt gttgggaaat 360

cgtgcaacaa aatctccaag gcctctataa tgcggaacac gtagaaatat gcgcttcaat 420
 aacgacggga aagtgcacg gggtcccatc agatctcaaa tagcaactga aaacttctcc 480
 ttcgcttaga cactgagggt aggaatgcc aattgtcacc gctttgataa aagttgatgc 540
 taaacagcat tggagacggt cgaccctagc cgctgctact tatcgtagtt ggaaccatag 600
 aaaaagtga taatgctttt accctgggat cgtcatcttc aagtcgtatt tcgttctctg 660
 ttacttctg acgcgtcaat gaagtttgac acaattccta taatggcgta gaactcaact 720
 aacttccgag ttgtagttga aaggctgaaa catatctgac tgcccacagc agatccaatt 780
 tgggcacacc aaacttcgtg tccttggcca ctactgtcaa gtcagagaac gttgatgcgt 840
 gaatgtatct ggcagaggca taaatgagtg ctgtataatg gatcttgcaa agttccaaac 900
 ctctggattt ctgcagtaag ttgccttca tttccgccag cctccatagt ctccgccttg 960
 attttcacag taacaggccg gtcgcccccc tttctggcgc agcaaattaa ccaaacagag 1020
 agagctggat gctcttgatg cgctgtgtgt ctccaggtact cagatgagat gtcacgactt 1080
 ggcgacgagg aagaggacca gagatggtgg cttcacctgc ttatgaattc tataagttct 1140
 taacttgtct ccttaccac ctttcatttg agtaagagac aatttgctac tgctgacgct 1200
 agttcctagc catggtattg gagcccttac tgctcacgct catattcgcc ttggcgctta 1260
 ttagcgctcc cataaagcct gaagtacata ccccgcatgt tgtccagatg ttaaaagcca 1320
 attgtgcttt gtataaggga ttcgatcttt cccaatcagc cgtcgtcaag ctctcaccga 1380
 ctccaaaccg ggcaaggatt caatgggaga agagtcaatt gagaaagagg agtgccaagg 1440
 aaaggtctga catcgggccc aagttgagat ctctcacata gagtcaaagt gaaaaggtaa 1500
 taaccagaga tattattcac aagcctcctt atttaacca cttcaaaaac ctgattgata 1560
 tttattcgaa ggtcaaggcc gtcttacggg tctgcttcat catcactgat ctacagaagt 1620
 gngtggttaa aggtgtgaac tgatcagaga agcataaatg gataacagtg cgatgttcgt 1680
 ggcgctattg tttcaggcat taagtgcctc tttgagaggt ggcanatggc actttngtag 1740
 caatataatg ctggct 1756

<210> 3464
 <211> 411
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3464

agtgccttgcc cttgcctatc aatacctttc ttccgaggct gaactttccc aaggtcggat 60
catcaactac actaggggaag agattgagtc cgagctcatt ttcgccgggt tcttcgttct 120
gcaatgcccc ttgaaggacg acgctataaa gacagtgcgc atgctcaacg agagcagccg 180
ccgagttgtc atgattactg gagacaatcc cctcactgcc gttcacgttg cccggcaggt 240
cgaaattgtg gaccgcgaag ttcttattct tgacgtcctt gaacatgaca cttcgggcac 300
taaagtgggt ttggcgaagca ttgatgacaa gatcaacatt gatgtcgatc ctacgaagcc 360
cttggataaa gagattctaa aaactaagga ggtgtgtatt ctgagaacgc t 411

<210> 3465

<211> 2630

<212> DNA

<213> *Aspergillus nidulans*

<400> 3465

agccaccaac tcgtgaaaga caagctcctg catgagttga acggagtttt tgtccagtac 60
actcagacag gactatcttag agagctcgag aggataatca agaattatct gcgaaactac 120
atgtggagca ccttgctcat gtagacgagc tctacgagat tgagcattgc agaccgttca 180
ccatggcgta ttgcgaactc aaccaagcag cagaagattg tcaaaagcag ctgcaatcca 240
aacggcttgc cgcccgggca aaccactatc ttgacctcca aggaaagttc cctagagatg 300
acccccggag agagaacgag agaaaaaagc ttggacttgc cgaattgggg gcagacgatt 360
ttgctcttga agtgaggatg atggctgtac gtccagccgg cgcactatac aggctgaggt 420
gcgattgcta accgcatata gacaaccaga ggttactacg aagttgctag ctctagattt 480
gtcgattcag tatgccagac tgtgcatacg aaacttttca tgaaatgtcg cgagaacctg 540
gtcaagacaa ttgagaatga actaggaatt ggagatgaga atggtatgcc ctttcctcca 600
cgggaggcat tgactctgac cttatatctg tcagctgtgg aaaaatgcaa cgagctcatg 660
tctgaggatg ttgagagaca gcgtcgccgc gaatacttcg agaggcagaa ggagaaggta 720
atgaaagccc aggagtggct gaatgcagag aacggcacta ccgatggcga ggacgaactg 780
atgggtgact atgagcccg cgtgaagacc gagctacttg acacttatta aggaatatta 840
ttgccagat gttgttctct tcatcatcga agtcaattta tttcgtctgc atttttgttc 900

tatatctggt catcgctggt gacggcgggg ttcagatcgt cccccacgaa gtgcccgtac 960
cctaagccct acctgcttta acttgaagag gctgggcgtc tttggctgac tgcgcatgta 1020
cagttctgga cgaacttgga gctgagaaac aaaatgtaat attatcaaga tgagaactgt 1080
aacaatggaa gttaaagca ggagatgctg ggattgtaca atgagtcac tgctcacagt 1140
gtagtaggac tgataatacc caatgatagc cccccgccca gtgactcccg cccaaaaatc 1200
tttggcacgt tttctccatc tcggatctcc cctcccactt tgcctttaga gaacaatcat 1260
ccacgcccgc aatTTTTTctc ttctattact cgcaccgctc ggagtgagta gatagagcgt 1320
ggagtattca ttatttcaact atgaccgact ccaaccctgt tcaggaggcc gaggcctcta 1380
tgccaacct tttgctcgat gaggtcactg gcgagaaggt ctcgaagtct gagctgaaga 1440
gacgcagaa gctgcgcgag aaggaagcca agaagaagga gaaggaggct gctgctcctc 1500
ccaagcctgc tgcgcaaaaa aaggtctccg ctgaagacga ggaggcgaac ttaactccta 1560
acgtgagtga ttccgaattt attctgaacc gcaattgatc gtgttttttt cctggtctag 1620
caatactttg aaatccgcag caagagaatc aacaagctcc gagagaccaa gcagccggac 1680
ccctatcccc acaagttcca agtcaccgat gacctccga aatacttgaa ggagtatgag 1740
agcctcgcga agggcgaaca gaagccggat acgaccgttc ggattgctgg cagaatctac 1800
acaaagcgtt catctggtgc gaagctgatt ttttacgata tccgagctga ggggtgtcaag 1860
gtgcaggtgg tatgccaggc tcagaacgct tcgggcgctg tttcgtttga ggaccagcac 1920
gagcacctcc ggagaggcga tategctcgtt attgtcgggt tccccggccg cagcaacccc 1980
aagaaccgac cggacggaga gctgtccatt tttgcgaccg aggtggttct gcttgctccc 2040
tgccttcacg ccattccttc cgagcactac ggcttccaag acaaggagca gcgctaccgc 2100
cagcgttacc ttgacttgat catgaatgac aagtctcgca acgttttcat taccggttcc 2160
aagatgggtca cgtacattcg caacttcttc gaccagcggg actttgtcga agtcgagact 2220
cctatgatga acgccatcgc cgggtggtgcg acaggcaagc ctttcatcac ccaccacaac 2280
gaacacgaca tgaacctctt catgcgtgtc gccccgagc tgtacctcaa gatgctcatt 2340
gtcggaggcc ttgagcgtgt ttacgagctt ggccgtcagt tcagaaacga ggggtgttgac 2400
cttaccaca accctgaatt cacaacctgc gagttctact gggcttatgc tgatgtttac 2460
gacgtcatga acctaacgga ggagcttgtg tctggcctgg tcaagcacat cactggtggc 2520

tacgagacca ccttccacac acagactggc gaggaataca aggtcaactg gaaggccctt 2580
ggaggcgagt ggagatgatt ccgctctaga ggaagctact ggcgagaagt 2630

<210> 3466
<211> 1308
<212> DNA
<213> *Aspergillus nidulans*

<400> 3466

tcaggcaccc atctttgcag cagccgggat agcgtatgac tccactagaa tgtgataagc 60
aaaggaccaa cattggggat tgagttctta cttggtgaca cttgatgata ctctccgccca 120
tagcttgaca ctttgaattc aatgttgcac ttccctcctc ggcccggctg aggcgattat 180
gcatatcgaa aagcatatgc tctaattgca tcaaccgtagc ttcagtagca tcggggggcag 240
gctccgctgg tgtgccgggt tgtgaggcgg cggttttgtg gcctggaaac gaatctcgat 300
ggattaaggc atgtcgcgaa gctcgtcgct tgatctctcg caatccaaca aggtcgccgc 360
gtttgaaatt tccgttgccg tgtttgaatt cccagagcgc agagtcagga gatccggtat 420
gaaagacatc gcttactgtc accgacgtta ttaagagcga ttatgcggcc aggaaacggt 480
ctacctttat ggaaaccata catattcagt tgtctcacia aggatgaaat gttggtgtgt 540
ttaaaatatt gactatatgg tcaattagt gttgacgac ctatgaagcc ggacacgcac 600
acgagttctt tggtgatc agatgtagta gacatgacaa agctgtcggt ggtgctggac 660
catgatatta aatgctggat gctttgatct tccaacatgc taacatacaa cttagctaata 720
gcccggacac agtcagtatc tccgtgcgaa acctgaagct agacatactt gtaaagctta 780
tgaataacgc ctgattgccc caccataggt tgttggaact caacggcggc accaatagcc 840
tgtccgtgcg tcgcatgctt gctctgggtc catgagctcg gcgagccatt ggatgtcgtc 900
gtggtatttg cggccgctcg atcactatcc ggggtactgt gatgggcgct cttaacggca 960
gccgaaggag gcggagtgc ctccatcggg ttagtcgtca atgtgccgga cgggacagat 1020
gacgagagaa caggaagctt ccgtatccta ccaggcgac ccgtagcacc agacgcgacc 1080
gtatttcttg atggaaaatc agcgagactg ctcatctcgc gcggcggaac aggggtaatg 1140
ggcgacagcg gccgcacgcc gcaggcgggg gacgggaacc tggaacagga cggcgaaatt 1200
ttcttctacc tctcaataag atctgctgtg aaaatggtca ggaaagaggt acgcatatgg 1260

aaacaggcaa tagaggaaaa cacacgggag aatagacagt agaaaaag 1308

<210> 3467
 <211> 598
 <212> DNA
 <213> Aspergillus nidulans

<400> 3467

gtacagcagt cgctaatagcc gccatcgacg gtaagaatat cgcggatccg agcagactaa 60
 gttgttagat aagctaaatg gttgagggag ttgatcagag gcagcgtcga tgtgcagtct 120
 aaagcccggc ggtcgtaaag agtagtggtg atgttgaccg aggccttggt gacattcggg 180
 atgctgaagt tgacctcgcg catggtgggc gatgggagac cgctgtgtca ccggatgatg 240
 aatcggtttg agatgcaggt gagatgaacg agctttgttg ttcggtgggt tgatgcctct 300
 caccctaag tgagactgaa aactcgtcgc ttcagagacg ggaaggagaa gatgggggtga 360
 ctccgtacag gaaagagggg agggagaagg gtggatatta ttccaaacac attccagggc 420
 taaaaagcga tggccgtagg aggtcctcga tcgacggggg acaatttgaa gaggaatctg 480
 aaattaccac gatggaagag gtgcttgctg aacatctccg gactacgctt gaaagggagg 540
 tctggtgagc aagttgatca atggacctat ctatagttgc taaccgcctc ttgcggtg 598

<210> 3468
 <211> 354
 <212> DNA
 <213> Aspergillus nidulans

<400> 3468

cgacagtcac cgcggggcgg gcgccataca ccgtgaccac tccgggttgg agccagatct 60
 gtggcccctg tagatgacgg tgttggtttt gtccttcgcg acatagtacc gctgcgcttc 120
 gaggagaagt tccttgagca cagctgggtc ccggcctatg caactgatgt aaagccgctc 180
 gggggccttg gtaccgtaac cgtagtagcc accgccgcta gatttatcat cttgcttctc 240
 gcgaataaag gcgagcggac gtccgttgaa ccagaaataa tgcgtgcctt cactcggtgt 300
 gaccgcaact tottaagttt atcgctgct gtagctttcg cccagtaagc atcg 354

<210> 3469
 <211> 1272

<212> DNA
 <213> Aspergillus nidulans

<400> 3469

```

ttctccgtct ttcgtgacaa ggttgggttg gacattcgtc tgggggttcgc ggaacggttc 60
cagaagacgt tgcagcagtc gcaattggtc cagacgccgt tgctcgctgtt gccgctgatt 120
atcaagggttc gcaagacggt ctcggaggcg cttgtacctg tacaacgatg agccgggtaa 180
aactggaact caccgcaagg tagtgcccac ctgagttggt cctcttcgct tgcggattgg 240
tcatagagct ccctaggaag ttgagtaata tttctagaaa cgtgtcagct ataagcagca 300
gatagataat gagagcaagc ctaacgggtg actagacagg tcgacagtct tatcgacgcc 360
tctttcaagc gaggttacct cacgggtagc ttgattgacc gaggcccagt atagactcac 420
gatttggtgt gccacatgct ggatcgcttg agaggagtaa ataactccat tgtgtgggtc 480
taatgctgaa ttcactgacg cagaggtaca ttagtctctg gtaatgagac aggagcataa 540
cacgaagcaa ggtctatgca acggcttagg tgaatgccac aacgctagat gaagggcagc 600
aaggcgagtg cattgaactt acatttgtgc agtacatcac caaccatttg tcgctcaggt 660
cctcttctac tggctcggtg gcataacttc gccaatcttc cggtgcttca aggttttccg 720
acaaaatagg aatctgcgcc ctaatgaaca atgatttcag ttcgggggatg gaccgagagg 780
actccatggc cccatagtga ctgtagtttg aatgttatgt tgaagaagca ccaagcgcgt 840
cacactgcca gttatcgata acggcatcac gcacgtgatt gggaggacaa ggaatcgctt 900
ggcagttggt ctaagctgct gaattgaggt atataatagg ggcaagaaca ttacttaaac 960
tgaggcaagc tggcctggga cctctaagcg ttggttggtc gcgtttggtc ctgcccatt 1020
tgaacgaagc gctttccaaa ggcctttggc cgatgtatac ctcggaacc actttttact 1080
ccgcaaagac aggtcaacgt aagaactgct gtcaaacgc cattgttctt ccttcattga 1140
caaaaggaca gttttatccg gaatatctta taaaagagct cacagaattg ttcttgctac 1200
ttcgctatga cagaaagcca acggccatta ggctgctgt tcgatatcgg cggcgtttgg 1260
taaacagctg cc 1272

```

<210> 3470
 <211> 540
 <212> DNA
 <213> Aspergillus nidulans

<400> 3470

caaggggttgc tgtagtgaga tagctgagac cctgcaaata ttttgcggtat tagattaatt 60

agtgtgaaaa cctgcatgct tcgggaaaaa gcggaatatg gccactaatg gcataggctt 120

tttttgcgat gtacttgcac ggaaaggcac tatagtcggt gaaaacccta atcaccaaac 180

ggcgtgtgat ttctatgcag ctatcctaga ccagcggcgg gtgacagctg gattacttaa 240

gtgtactcct aaagtttcca acattaccta tggagaactt gactgttcta aagagcttca 300

aagtagtgga tattcctgta tgtagtaa atgttcctaac agtacctcaa ttcattgttat 360

ctgacctaat ttcccagaaa tcgatgataa tatactgcta ggtagtcctg gaaagtgcga 420

aaagccaccc atcttcaggt gctgtcaaaa acaatgcatt aagtacgtat ggcacttacg 480

cgatgacaaa taatatgcatt agttcagttt tatgcgggga aggctgataa atggagtttg 540

<210> 3471

<211> 496

<212> DNA

<213> *Aspergillus nidulans*

<400> 3471

tattgttact taccagtgct gattccgtca tggtatgccg tggagcagaa gcatgaaata 60

gcttcagtag tagctctgaa gttttgtcca attatgggcc ttgtgatgtt ccgaaacgca 120

atagaacaac atgccgatgg ggctcggcag actttatgat cctctacgcc ttatatctga 180

gcgtcgggaa aaccccgagc ggggaagcga ggccggcggt tgctggatgc tggtttgtca 240

tatggagata atccatatag aagattaaaa aatcctagcg ttggatgaca gtatataatc 300

cctcgacgca tccagacagg catactctat atctgtatca ttaatggaag gaacatcttt 360

aattcaagga atgtgagaat gccttaagct acccgcatgg gggtcacaga gccacattc 420

tgcattcttt ctgagctctc agcttcggct tcaagttcag cctagtatca gcatagtcct 480

tgactgctct cggtaa 496

<210> 3472

<211> 903

<212> DNA

<213> *Aspergillus nidulans*

<400> 3472

gcgatcatgt ttttcatgca gaactaacgg gaaaactgct atgggtgtgta tttgccaacc 60
 aatccccgtcc atattgtcta atgcgacatc aacagcttga tgctgggatg caccctgcga 120
 aagaggggatt gtcagccctt ccgtttttcg atgagttcga tctgagcacg gtggatatac 180
 tcttgatcag ccagtatgtg gaatacctag tctccttggt gctgttctcc cttctagtcg 240
 tagggatgtc aggatgccat agggttcttc gacacctcgc ggatgatggc acgacgaagt 300
 catcgagtat caacggtgga gtggctcttt tggcaatccg gcccctgcat ctttcatgta 360
 tacaagaaac gcaatacgaa ctagttcatc ttgtattctg ggtcccatca tctgtattct 420
 gtatcatcat tagttctgga ttcattgcgt ggtcttctca accgatagac taatagactt 480
 ttgtcggatc acagttttca agtcgaccac ttatccgtgc ttccctatgt cctcagcaaa 540
 acgaacttca agggccgtgt cttcatgacg catgctacaa aagctatata caagtggctg 600
 attcaggata atgtgcgagt caacaacacg gcctcctcct ctgaccaacg gactacccta 660
 tacactgaac atgatcacct ctcaacgctg ccgctgattg agaccattga tttcaacaca 720
 acacatacga taaatagcat tcgcatcact ctttattctg ccgggcacgt tcttgagact 780
 gccatgttcc taatatcaat tgcgggttta aatatccttt ttaccggcga ctactcccg 840
 gaagaggacc gccaccttat tccagctacg gttccccggg gagtgaagat tgatgttctt 900
 att 903

<210> 3473
 <211> 2511
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3473

tgagaaggag tctctaagga aggtctcgca ggagctcgcc acggctcaac tgctggcgca 60
 taaggataag ggcgttcggg cctgggctac ttgctgcatt gtggatgtgt tgcgctctg 120
 tgcgctgac gcgcctttta cggcgaatca actaaaagtg cgatctactc aacgtttaca 180
 gatgcgtgtt gatattcggg tttggcaact gactggcttc tttgtctcct aggatatttt 240
 tacttgcat gtgtcgtcga tcattcccgc gctaggggat ccctcaaadc cttataatgc 300
 ccaacacatt tacgtcttga attcgtggc ggaggtcaaa agtattgttc tcatgacgga 360
 tctagatcac ccggacacat tgatcgtccc actgtttata agctgctttg acattgtcgc 420

aggctcagct aaagcctcga ccggcgaacc agttgccaaa aacgtcgaat atgatatgac 480
 ccgcttgcta gtgacagtta ttgacgagtc gccagtcctc gcgcctgatg ttgtggatgt 540
 gatcgtagcg cagttcttgc gtgtcgatcc tcgcgtgctg gatggcccag ggaaaaaagg 600
 aaaaaaaccc gagactcagg tggacgagaa acaagagacg ctcgttctaa gggactaccc 660
 gcttgcatatc agcatgacca aaggaatctg ccaggcttgc ccgaagagga tgactagtca 720
 tctgagccag tactgtatca acggcctaata tgactcctca gccaccggaa cccatgatgg 780
 gccctaaaag caagctcgca gaactaacct cgatgactcg gacgatgagg gagaggacat 840
 catagaattt gagtcaagcg catccattga tccgagagct ctggagagca tgccccgacg 900
 ttttgcataa tgctatcccc caggttgaag caaaactgtc cgccgaaacg gtgttattgc 960
 gcttgtagc aaccagacc atcggcgacc tgacatctgg cactgggggtt gctggaccac 1020
 cccgcctct gcctatggac cctgcggtct acccacaggt gaagctggac gactacgcgc 1080
 gatcaattcc gcagccaaat gttctcctta tgcctttcgc gccgaagccc ttttcgcaag 1140
 cacacagctc tgcgtatgat agttttttga gccgacgcct ggacaaatca gcttccgtgc 1200
 gagcctcttg ggctaccgct attggccgaa ttatcctaac ctctgcaggt ggttcaggct 1260
 tgagcgataa tgaggagcaa acgcttatca cacatctatc gtcgatgctg cgggatgccg 1320
 atgagagggg ccgcttagca gccgtggaag cagtcggtac ttttggttg tcgcacattg 1380
 tgaacaaact tggagttagc ggtggtgttt ccaactcagga ctctttactc ttcattcctcg 1440
 cagagcgtgt taaagaccgg aagtcgcagg tgcgcgaaca tgctacgaaa gtcttggcac 1500
 gggcttgggc tgtcgcgtct ggggacatag agaggagtca tgagcaggtc acgcccctgc 1560
 tcaaagaggc accgtctagg attctcgacg cctactacac caacgaccct gagatccacg 1620
 tttctattga tcgtgccatg ttcgagatcc ttcttccgct aagttatcct cccatcaagc 1680
 ccaaactctc aaggagtagt tcgagtcagt ccagagact aaaggactcc caagcggctg 1740
 agcctgaaag cgaggcagat gtggatagaa tccgcgttcg tcgcatcctc accctcgtag 1800
 gcgggctgga cgaaaaggcc aaaaaggtgt tcttcgcat gcagaagcgc caggtatccc 1860
 taagaacagc tgtcacagtc tatttacagg cgtgcgagga gtacaatgta agtaacaaca 1920
 ggaccgcgag ccagtgcagg tagctaacag cgagcagggt ggcgtgatgg aaaagaataa 1980
 ggaccagatc aaggctcaac ttactaaaat tgttgacgct ttagcgaaaa cctttcccg 2040

tccagcaagg acatctgcag acttatggaa gttcgcacaaa atccatgacc gacgaggcta 2100
tcaacttata cgctttgcga tggctgctgt gactgactat cgcacgggta tcaaagctat 2160
caaggagctg gcgagaaggc tacaatccag caataacacg atcctgcatg agacacttac 2220
taccctgtta tatcgctgca gctcgatcgt ctttaaccga agtcatattc ccgccattat 2280
gagcatctcc cggtcagatg agaatggatt agcggctccc gcgcatgaga tgctgaaaga 2340
aatctcttca ctcaaccccc aggttttggg ggctcagggt caagagatat gcaaagatct 2400
tgaggcccaa gcccacaaagg ccaccacggg gagcgtctgc ggtactgagg agatctcaag 2460
gcctgctccg gggtttgcga gaagctccct cgaagttacg aagagcggaa g 2511

<210> 3474
<211> 492
<212> DNA
<213> *Aspergillus nidulans*

<400> 3474
tttgggataa cttgcataag ggcgcccacg acagttagtc cggctctttcg gacttgcttg 60
ccatccttgc atatcctacc gattaccagg tggaccagta ctccgagaag ctgcacccta 120
cgcaggagga aaggcatacg ctctatcccc aggttgggca gattgcatgg cacatcttct 180
ctgatgatct ggacgacctg tgccagcttt tgtcctatta tggaacctac atcggttggtg 240
ccctgaatcc tcctcctaga cagacttata ctataggctg atctggcgca gtggattgct 300
tgaagcacca agttatgctg cttggctcta caccgggtga catcatgctc gggtagggttg 360
ccactggatc accggatacg tgtcagcaag ccttgaccga gagcactttg tgaatgcccc 420
gagcgcccat gtgaacacta tcaggactct catccatagc cctaagggca gaaccactct 480
ttctggctcg ac 492

<210> 3475
<211> 572
<212> DNA
<213> *Aspergillus nidulans*

<400> 3475
gttaagataa cactcggctg gacgataacg aacgggatcc gcattggctc tgatacttgc 60
ggaactgcag ccattgattt tctctgccct cgggatttcg ttaatgagcc taccgtacca 120

acaaaccatc tgcacgctca atctctcgag ggtatattaa agagcccaga cccacaaaaga 180
 cccattcaca gtgctttgta ggatcacggc ttccatataa tatctatctg ctctgggtgca 240
 ctacagttga gagccgacca tttctgtttc accgatcctc aagtgactta gccgtacatg 300
 tgaaccctgg gcgtctagcg acctgcgaaa aggaccacac ctgctatgag ccgctctagaa 360
 tattggaagg gcgcttacgt gctgcggatg caaggtcttt tgcaagcccc gacggacttt 420
 cttacgaacg tgcccagget caggtttctct aacctgatgg ggaccctcta acaaaaattcc 480
 gcgcagatga atgcattctg gacatggact tgtctgttg agcgccccac tgggcaactg 540
 tcatatttaa agtgggcac c atttgcaatt cc 572

<210> 3476
 <211> 231
 <212> DNA
 <213> Aspergillus nidulans

<400> 3476
 ctaaccacca cgggaggggt gccgttctga cagggacttt agtgacgccc tccgccgaca 60
 ctggaaaacc tgcaactgcc ggattgctgc cgggactgac atccctaaac gcagtctatc 120
 cggtcagcgg aagcaggcct gtgacctgtg tacggagaga aagagggcct gttctacggg 180
 tttgccgtgc tcggaatgtg cgatgagaaa agccgagtgc acatatcatc g 231

<210> 3477
 <211> 504
 <212> DNA
 <213> Aspergillus nidulans

<400> 3477
 gagactcgca agaggtttgt ggtgcgtata gcctacctaa atgggtttgtc caaaggcttg 60
 atgagctggt ctgcacgttc cacaccccg atttctaacg cggcaggggc taagctcgga 120
 atacggagta tttaacaata gtggttgatc ataggatgcg tgcaatatat acgatcgga 180
 tctagatcct cagagacagg gtacgcttca aggatgaaca cggcatgatc cagcttagat 240
 tgtctagtag cgcggacgat attagcgaga gctcatgtta ttagtccag gaaatagtct 300
 gttgagagtc ctgtacagtt tgtctgtctg agcatggctt taaagtgggg agatagacca 360
 aacgaaggca cttatatgtg gatagaaaga tgactttgta cgtatcaagc gtattatgag 420

gcactgtcct acaggctcgt gtcggtggag tctgacccat aaaactgtaa gccgaaggta 480
 agtgccatgc tttgggaaga gaag 504

<210> 3478
 <211> 426
 <212> DNA
 <213> Aspergillus nidulans

<400> 3478
 gcaacgatgc gcccggtttg ggcgccgttc cctgaggttg atggacggat ggggagtaca 60
 gctctggcgg tgctcgagta ccagatctag gattggcgat ggtgtttact aataacccat 120
 cgccttacta ctcgacggaa acggtgcgct cctatgcac ttagcactct gcgtaccgct 180
 ggcgatctca tcgtgatatg cctatgctag cgctggctctg ctccccagct tgcaatattt 240
 ggccctcggag ggatacataa catgtggagt cgcactgcc a gactgtgcat gatactaccg 300
 gtatgaggac acatatgctg aggagagaca tagatggcct gcgcatgtgg acggacttcg 360
 cgatcaattg gagttgcatg gacatgcatg tcacacggat tcacggttac ctgggaaaga 420
 ggtcga 426

<210> 3479
 <211> 265
 <212> DNA
 <213> Aspergillus nidulans

<400> 3479
 gggaaaaatca cgctagacta cctttttgtt tgaacaaatt ttggtctcaa ccctatctga 60
 ctcgtacaat ggggtgggtg tcttttgaga ggggtgtacgt tcagcccccc gatacccaag 120
 tcattctagc aagccaatta acgcgataa cagtcgtctc agacccccggg catgttctct 180
 cccctcttgg gcggcgtaaa aaaaaagcct ttcactgcat atgatcgatc tctccgcgaa 240
 gtatcccatc cgcagaccgt tctgc 265

<210> 3480
 <211> 823
 <212> DNA
 <213> Aspergillus nidulans

<400> 3480

attttttggc tccaacgggg gacaacaccc caccatttta gaaagcagtc caatttttgg 60
 caatacacat ttcacctatt ttagactgca gtttccaccc caacgaatgc acgaacgaag 120
 cctgtcccgga cccagaccta cttctgccct ggcaagcgtg cgacaataaa ctttctgctt 180
 acgcaacgta ttgcacaact ttaagatacc acgaatgatg actggctagt cccgatcgca 240
 ctgacataac tccgtcatta acgaactagt tgagggcgga ctagggatat ggacgataag 300
 ggttttctgca cgaagaccct catcaccggg gaggaactca ggctccagaa agcgtctccg 360
 gtatgcccg c gacgatgctg actgcttctg gacaagagtc ctttctgactg ctcaataaag 420
 tctttattct accccaatgt aatacccgct gccctacctt gtcaccggaa aaatcaacac 480
 ctctcgtttc ttattgtgac ccccttata atggagggaa tttctgtctac tagaatggct 540
 caacagacaa taattcgccg atgaccttaa ccagaatatt tcatgttcac gtatttttgt 600
 gtgaaagctt ctcacagggtg gcaattttct tgtagggaaa aatattttaa gagaatggga 660
 atcaaattcc tcatttgaaa cccctcatca ctccacaaag aacttcata aaactccaac 720
 tttttcgaac tcaattatta cctcttttcc tctgatacta aagataaaaag ataacttctc 780
 cctctaacc c tactagtgtg taacatatta agctgaacct tta 823

<210> 3481
 <211> 623
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3481

agacggcatc agagtcgctg gttgagaggg agtatggcga aggtcgatac catagtctag 60
 cccgaaggga gttttctttc cgattgtgat tgagagttgt atcagcgaga cgagggcgcc 120
 acgcagctgg ggcggttcga tctcagcctg atatagtgga attacctatg cagccagtca 180
 gcagctgtca gccagccggc cagcaaacac cacagggccc tgagcccccg ggggcaatac 240
 atgactaaac attccaatcc ccaaaccacc gatgaatcgt cccgcgaaga aatatgccgg 300
 cgtctgcgcg ccagcctgca gccccgaacc aagggtgaaa acgacgacgg ccaccatcat 360
 cgaatactta cgcgagatcc tgtcggccag gtaccctgta aagagagcac cagcccaagc 420
 gccaaagctct agagcagaga ccagccaacc ctggatggtc gagcccatga gacttgggaa 480
 gtggttcttg aagttctcca tcacaagcac cggggacatg actccctggt cgtatccgta 540

catgatacat ccgagcggagg caaaggcaca ggtcatgaac acgtaggggt tcttgagcat 600
accgacgaga ccgtgggggtt tct 623

<210> 3482
<211> 800
<212> DNA
<213> Aspergillus nidulans
<400> 3482

aaaggcgctg tcccggattc gtcgagttcg tcaactacta tcggatgaag acctttcttt 60
tgctctatca tcaactcctcg ttgatgacg ggaaataccc tccccgccgt atcaatgttg 120
aattgtcgta agtccatgtt taactttcat cttgccacac ctttccaagg ctactgaca 180
aataacgtat attagcgctg gggggggcgg taaatccgag ctccgcatgg ctaatatcga 240
tgataagaac cagaagcttg cggaggagag gaagctcccg gctaaggtgt ccaatacggg 300
accggtctat attgccacag ctgacgcgaa acctaataatg gacttcaccg attatccatc 360
cgattaggag acctttctcat ggccctgtta aagggatagc tctttgcggc tttttccgtt 420
gaccttcaat gtagcttccc attttttttg catgcttaca ttgtctgttt cctgctgggt 480
caactaatag ccttcatttg gtcatecttt tccccctttt cgattactcc tagccgcggg 540
ctttttacag tgccaatgct cttataatcc gaaattttta aaacctccct attctaagga 600
ccttgcatgc ttagttcgcc tttcagactc ccatattatg tttcccacca caaactgcga 660
attattgcca ccgccccctt ttataatgtc cctacatgtc ccaccccggt tgaccaccta 720
cccggaaact ctaatgttcc ctccaatcgc ccccggtctt ttctctcttt ttttttgccc 780
tttcggcccc ctcttgaatt 800

<210> 3483
<211> 552
<212> DNA
<213> Aspergillus nidulans
<400> 3483

aaaaacggat cgaagccttg tgctctagca caacgccaat cgttcggacc gactacacag 60
gacagaggag agcacatata taagcatgtg acatacattg acttgtaaag agccaaacac 120
aattatccat tcattcaacc gctatgcacc accccacatg gtcttccaca tccactgtcc 180

aaatggtggc tattgcgatc ctcgacaagt gtagctgcgc cgccaaaaat cctagacgaa 240
 tcgatgctca actagacaag accgccatgc cggttgtctg ctaccctaata acacgctaaa 300
 atcacattct ggacagggac ccccgagtc acccggtac cggaccccct gacgtccttg 360
 cgggggatat gggaagttca catgcgcca aggcattgcac cgactgccat attagggaga 420
 ctggactcgt ttacggctag atcttgacac tcagtccat atcactgcgc ttgagctgac 480
 cgatactctg gcacgccggg caagggaacta cactataaca tggatggaat aataatccga 540
 ccgaaaaaat aa 552

<210> 3484
 <211> 1130
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3484

gacagcagcg cgaaacactt gactcccagg tgcttgtcac agctcgaaac actcaggtgg 60
 aactctagg ccttgatggt gctggagcgg ccgaaaatgg catgaacgga ggtgggcgtg 120
 tctcgccagg taaagatgag cggacttcgt ccaatctgtc tgattcctcc acatcagcca 180
 agtcagcaaa ttctggagtt tcgcctacca gagataaaca tgcgatcccc cctagacaca 240
 gcagagaagc tatacgcagc caagacagca cgacatcagc aactgcgtca tacgaaaagc 300
 gctattcatc cgattcttat tccacagctc agtcagcaat atcacaacaa caagcagagg 360
 gcgagtatct ccttcgagac tcaggaaatg cagagtcttc ccaagtgccca gggctcctca 420
 acaagtcgcc cggcccaagt cgaccaagaa catcggagtg gatcggcggc atccgaagag 480
 tactgtctct gtcgaggaaa cggcctccag ctaatgaaga ttttagtact acttnccggg 540
 ctttcggaat tgatggaaga tcattgctggg ataagcaatt tcacggctgg cacaacattt 600
 cctcgcaggt cagtgcgcgc atcttctgaa ttgatcagac cgttgaatgg agccatatat 660
 ctgtatttta acatcctaata ctttattatt tatctaaca tttcttcctt tctatacttt 720
 cttaatttta atttttctta tactactatt tattttcatt tattattttt catctttctc 780
 actattttct ttttcatttt tctatcatat ataatcatct aatatacaat ctatattcta 840
 aatctctttt tttacttttt atcacttatc acctatcatc tcttattctc acattttttc 900

ttcattatct tactttcaac aatttatatc tttaaatacc tttcttatat cttcaatact 960
attatatatt atccttactt ttccttacta aattttttac aactcttttc atattctcat 1020
ttataactaa atattccata tttttttctat tctatctctt ttcatactac tatttatttc 1080
actcataact atactatcat tatectcatt ttatttcact catcatatat 1130

<210> 3485
<211> 400
<212> DNA
<213> Aspergillus nidulans

<400> 3485

ggctctgtgc tgaatcatgg cacgtctccg tgctactccc cggcttcgat ctggtaatga 60
tcctggcctc ggatgatgtg cctaagtcaa agcacgccca gctgggcact gggttctggt 120
agatccatgc gcgacgggta ccgctcggac gacgaagctg ccgagacctc acgggctatg 180
cggattatag gcgaccgtgg cacttgcata cagcttgttt atccgctcaa tggctgtaaa 240
caaagcgcca gaccattcgc tgccggcatg aggagtatca catgggacga tgcgcttat 300
gaatgatgag gtgctgtaat cgatgcgacg gcggagtacg tgcgataact catgagatct 360
ccagttttgg tacttgacat gtgcactact actatggtac 400

<210> 3486
<211> 352
<212> DNA
<213> Aspergillus nidulans

<400> 3486

caaggcatta ttggccgaag accgccagca ggaatccagt acctgacctc ggatcttcca 60
cgtagctgtc ttctctgcga tgcattcact ggaaaaccct tgccagctgg cactcctagt 120
ctacagacgt ccctaattctc aatctgtcgt gacaccatgc gggccagaaa cttacctatc 180
cccatatgat caagactttg cacggagtgc gggcccccta caactcgatg ccatgtatac 240
ggcagacagt taagcgaaac cggaccgtcc cactgagcca agcgcattat gatttccgca 300
ctaataataa cacccttgcg gaaagccaca cacactgctt gtagcggaac ta 352

<210> 3487
<211> 559
<212> DNA

<213> Aspergillus nidulans

<223> unsure at all n locations

<400> 3487

aaacatccgc tgagcgcggc cccgcgcact ctgtgtctac attccgatgg tttctttgct 60
ggcgctaact gaaccgcggt tggcggtagt tgtgccccac gggggctacc tgcgtctaga 120
agcagcggcc catggactgg acgggctggc agaggctctc ccctcatagg gaggacggt 180
ggctctactg agggataggg tactgctgtc taattggtag catgccctac aaatagatgc 240
caatattaat agcctgcaca cggctaagca ggaagacaaa cagcaccttc gtccactgca 300
cctgtaaata cagtcccagg cactctccga gtgtgccaac accttttagga ccggcgatac 360
cactgctact cgactcttgt cagtggagta gccccgact ggggacaggg gcgcaaagag 420
agacttttag cggagcagtc cccactccta cgctaggcca tctggcatga acgccacatt 480
agaacttngn tcctgcgcaa cttgtcggag agactagaat gggctataca ctccgcgagg 540
gtaagctctc gtatacata 559

<210> 3488

<211> 742

<212> DNA

<213> Aspergillus nidulans

<400> 3488

ttagatccta gtagagtcta gcgagggcct agacctctgg gttcgacttt aggctcgggg 60
taacaaccaa tgcaaagagc aagtgagaag cgaaaacgcc cttgcaacta acccgagtaa 120
aggcatcaga gcgctcaacg cttactgaga aggggaaagc gagacgacgg gtagcatggg 180
ctgacagcgc gcagttcttt ggatggaaat atagcgcagc gctcaaggct aaccagaaag 240
agtaaataat cgcgacatgt cagcagctta taaaaagtc aagatgacag gtgctagtgg 300
cgaagtctag ggtgctcgga gatagtgccg gtgccgcagt gcggtcgatt accttagtat 360
tactccagac taaatctata tcgcaaagga agccggcttg gccgctcacg ctaaaccaga 420
tatggttagt cttgcgctgg agtatgtctg cccaaggaat caatggttga gaaacgacaa 480
cggttggttc gcagctgtat taggcttctg cgaaacatgc ttgttgattg cttgggcac 540
acgcttgctc gagtctcacc ttactggttt agattgtctg caggcgcaat cgctttgaag 600
ttgctaggaa ctcgttgatc tacgtaggct cggatatcac gatggcgcac aaactcaata 660

gcgagctttg tattgcttag aggaatgcac ggtaggtaac tgatgctata tgaggcaagt 720
 agggatggta ttggtggaac ac 742

<210> 3489
 <211> 921
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3489

gaacccgctc agcagatcgc tgaagctcct tgccaagtca gagcgcaacc caagcccgga 60
 ggcaaagctg gcattcaagg ccacgaatgc cggtgagatc aacgggttga atcg cattat 120
 gtacgtcaat cgtgggatgg ggcgaaacgga aaatatataa cagtgttatg tggaacgcta 180
 agaaagcgac cgcaaactga aaggggacac acggttcaag aaggttgacc tacaaggaaa 240
 catcttggac agtacggcga ttttctatac tggaaatcca ccgttgaagt gagagccgac 300
 ctgatcctcg acatgtctga cttaactcac actacacagg agaaagccgg gatacgcacg 360
 atagccggtt acaaacatcg tgtgcagcac agagaagtgt accgtggaca tgggtcaaaag 420
 ttgatgtaga tgcctaccga cgcacagggt tcaactaacga tccaaaagag cagggttttgg 480
 tgttatacca ggcctcacct gatggagagc gactaagatc caaagtccac acgagagcca 540
 tcttagagtc ttatgtccgg ctgcaggggt gaaacgagag ccttagccta cgatggttct 600
 tttgtcgccc gagttactaa gaaaacaagc aatcaaatgt gagtggggat gctttcctga 660
 tctataagga tctgcaagtg tcggttaa at tgtttaaggc acttgaaaaa atgtcgaatc 720
 catatatatt actcagccag gggcaatatt ttactttccc ttatataaag gctttttcca 780
 attttattgt ccaacctttg ttacattcg actaaaatta tgaatttctc tgaattctta 840
 ccataccctc gttccacgct ttaaaatttc ctcttaacac actcatataa ttcttttcca 900
 ttcgtccttc ttcttttttc c 921

<210> 3490
 <211> 1497
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3490

aatttgcggt tgatgatata tgtcggcaga gagcactaac aaaaggttgg ggtctagtcc 60

acatgtctaa atataggctg ccagctaacg attcgaagtc acgcgagtat gcgacgcctg 120
 agaactcgag aagacaggca cgaactcagg cagctagggg ataatatcac ggaccatcgc 180
 gtggttctcc agacgaaggt gctaaccatt agacgactga agaaggacta tcaaaggtac 240
 tgttcaatac gctgcaagga ctcacgcac tgcaagtgtg ggcagataat ccaagaattt 300
 gaggagtacg tagatgaggc ccagatgtac ttggagcgag cagccgtact ccaggacaga 360
 gttcagtctg tccagaactt agtaagacaa gctctctgta gtccggagga tactaaccac 420
 tgtgtcagct gtctgatcta ctgggatacg aggagctgcg aacgctgaga gagctcatgg 480
 tacgttgta ctgctccttt ccctgttata cttttcttta tatgttcttc ttcttggaat 540
 ttgtcttggg ttttttttat cattattgct ggggaaagtc taccctaaca ggctattgta 600
 aaacaggcac acacagtcca gggatccacg gccatggagc aagtggcagt catcgggctg 660
 gtcttcatac cgtctcgctg gtggaggtag gcctttctat gcctgtccgg gaactatcgc 720
 taatcagatc cagaattttt tttctaccga attcgtcaaa aatgatagtg atgggtctaag 780
 ggtgtccggg caagtgtgga ttatggcggc tgtggctgtg ccaatgactg tatgtgtgct 840
 tgtattttgg cggctttggc tgcggtatga gttctttcgc ctccgacctc tcaggcttgc 900
 caggcgggtgc ctgaaggccc tcgtcaaggc caaaagatcg aaggatgaag acccggggat 960
 gaaggtctga tgcattttct ccattgttgt gggggagagt agccctttat ccattgtgctt 1020
 tgcccaattt ggcttgataa tcttttttgt cggctctctt tttagtcctt ttgcttaatc 1080
 taatcctgtc tttctcagtt cctttcattt gtatgtctgg actttgtctt tcatttttta 1140
 cagcttgctc tcgtccttct cggtttctct tctttcctct ctatcattct tcttttgacc 1200
 ttcttttttt tctcctcttt actcatagct acctctctta tttttctttc ctctttctct 1260
 tgctttatct ttgccttttc cccctctatt ttatcttgct tcttcttatt tatcttttta 1320
 ctttccatcg aatttctttc ctttccatct atctcttact taccctatct tttcctttat 1380
 cactctttgt ttttattatg tctccttca cttcattctc tttctttcat gtctccctct 1440
 tcattttttt ttatatcacc tttttcttta ccttctttct ttctatttcc catattt 1497

<210> 3491
 <211> 341
 <212> DNA
 <213> Aspergillus nidulans

<400> 3491

cgaccacgcc ggcaaacgcc cgtggataac accacgaccg aagcaaccga gggcgcgggg 60
aaaagagacy ggggagggccg gacaccacaca agaggacaca gggaggagca cgcagaaggc 120
caagaaccga gaacgacaca agaggagcaa cagggaaaac gccgccgaag agcaacaaga 180
cacgggaaag gacaccacga agggacaggc acaacaaaga gcagagccac cccacccgcg 240
acagaccac acgagcggac acaaaaaaga cgcacgacaa gcacgagcca caggaaaaag 300
agcgcgcagg acccccggac gacgcacaag acagaccacc c 341

<210> 3492

<211> 453

<212> DNA

<213> *Aspergillus nidulans*

<223> unsure at all n locations

<400> 3492

ctcgagattc tatagtaacg gatggcacat ggcgtgtacc ccttaggccc gggagtggct 60
cgggcaaagg cctgaggcgc gctatgtggg gctcgcattg acagactacg ctactgatc 120
tgtaccttgg aatggagact ttccagacac gccgcgggat ttccgcatgc gcgtattcgc 180
tgagttgccg aagcctaagc tggctctgat tatgcacgac cttgttatat gatattccag 240
ccggtatcta tgaacgatga acaacagaca ctgagtcaac gtaaagattt atcctagggtg 300
gatacacgca tagtatccat gcattggcct gcatgcggcc agcagcttaa ccctcgagtc 360
tatacttctc cgctgcgatt gccaaagccga gtattgnaca ccnttagggc tgagaacgca 420
tcgggtccat gcacaactca gagtaccgct cat 453

<210> 3493

<211> 1146

<212> DNA

<213> *Aspergillus nidulans*

<400> 3493

gacccgggtg agaagatcaa ggtacttggt tcgcctgtcg cgggttcttt cctccgcgcc 60
tttttctcgc tggtgggcac gtacgggaga agcgagatgt aatcttgag attctcagct 120
gcgctgagca ggagagatat tgccgaacca gcgtacagga tctcactgag aacttcgtcg 180

taacctcatc catgctgata ccgtagcaga gtgtcagtg cgtgttgagc gcgtaccgct 240
 gcaaataccg tctcacactg acctcagcct caccatcttt gctggcgca tatagatccg 300
 gaaaatgcag catctcttca gatcgaacat aggggtgggtt ggtgttacgc agcgcatggt 360
 atagccagtg ctagtccccg cgggctcgcg catatttctt gcatgggctc gttcccccg 420
 agatgagttc tatcgcttaa ccccatgtgt tcttgccaac ttacgccacc aagttttgcc 480
 aatgttccg cgttctctt tctctcggt cctggtagat tcaatcgat ttccggttat 540
 ctctctgttg ggtgttcccg cacaccacca cgctgttctg tccggtctc atctctatt 600
 cattatctc taacctgtcc ctctgtatc ttgagccctg tccccattt cctctcttcg 660
 tattcacaat tctctctac ttattcgga taccacctc cactacacc gatctctct 720
 cggcttgcc tattctcatc tctctgttca tcataacct gctctgttc cttatcctaa 780
 gtcgaaactc actcactctt ctctatgact cttctccaa tttcttacc caatccctta 840
 atctttctc taccattcca atctctctt ctctctgac ccgaaccatc tcttctctg 900
 ccctctacc ctaacctat ctctttatac tccctctac tcttcttc cccatacatt 960
 ctctcttct cttacctaac aattccta ataacgcac tctctatct gtaactacct 1020
 aatctccacc tcttaccca atatcatct tctctacc cagcccaa atcttctctc 1080
 actcccaaac tatacctctt cctaactacc cttcatttat cctcaacgca tcaactaccta 1140
 ctcccc 1146

<210> 3494
 <211> 620
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3494
 ccattctgca tattgtctgg ctgctctctt tcgaatttgc gccagattac ttattaaagg 60
 cagtccacga ggccctttga agccgggaat gcgagctgaa gcccgaaatga actcattgat 120
 gacgacgtag agcagaggta ccgcaaaagc aactgcagtc aagaattgca ggggatgttc 180
 gacggctctg ttgttgacaa acaacaacgc ttccgcatg gccatactag cgcaagtagc 240
 ttctgttggt tgtacctgaa atgtctctgt tgtatctggt gtggctcgaa gttgttagat 300
 tctgagatt caatagtgt accctgggctc ttatatagca tggcaacgct acatctagga 360

ttagatgact tcggcaacct gcacttggag aggaactttt ccgtctcaca gagcgctata 420
 agcaagggtc aggcgcttag atccaccccg cattttctga acgacctggg gtaacagggt 480
 caagctttgc agatgcgagg atgttgattc gctactgaga gctctcgtgt tgagagcaac 540
 cgagaccata ccgcacccgg aacaatttcg cctaacagca ccgggataag gccatatctc 600
 ctggtgtggc gcccggtgcat 620

<210> 3495
 <211> 1354
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3495

aaataaatgt aaaaataaga gagaagaata agttaaaga atagggatag agatagaaaag 60
 atgagtgtaa atgagagaag agaagtaaga gagagatggg tgatgaagaa tagaaatgaa 120
 atgagataaa tatagatgga aaagagttag attgagatag gtaggatgat agtaaaggag 180
 aataaggata aatatattta gatagaacaa aagagaggaa gggaataaaa taagtataag 240
 aaagatgttg atagagatag gaaagggata gagagattag aagaaagaag aatggaatga 300
 aagtgtaatg atatatgtaa ggaagatagg taaggagaa agagagggta ggatgaagaa 360
 acagataaaa gaggtgaaga aaaaggaagg taaagagcgg ttataataaa tagagtaaag 420
 agaatgcgaa agaaaggaag ataagaagag gatagataag gagagaaaag atgataagat 480
 ggataaaaaa agatgagttg atgaagaata gtagaaaatg tgtgaaaagt gatgagaagt 540
 ataaaaaagt taaatgagag agagtgaag aaggggggta aggaaaaata aggataaata 600
 gcaagagaga gaaagtagag aaagatagtg taataaaaaa ggaagtataa aagataatat 660
 atgaaactgt gaagaaaaac aagatgcaat attgagcatg gagtcatgga aaattcctcc 720
 ccagtagccc gtgacatcag cctgacatgt attctctgct gcgtatcgta cctgtccgta 780
 cctacatact gtgcgtacga ccgaccacct atccctcgta aagagttaga gaaggcgaca 840
 ataaagccaa agatagtctt cagcaaggtc caaattttat taattgcgaa aaaggacaga 900
 gtccttgaa tagaggtcga aatggtgact ctgtaagcgc cgtactccgt acagtaccgt 960
 ggcttaagct agttggtgag catagatcgg ctccagactt cgcggtgtta gcatcaacat 1020
 ccactccaac gcatttcctg gtgaacgccg ccggcctttt atgggtttatc gggtggaatg 1080

ctcaacaaac tccttctctg ggtttggact acttagctta caagctcgga ccggttctcg 1140
gaaccagtct tgaccctaata gcagggctga accaccatt tttgggcgtc gacccggcta 1200
gtgttttacg cgagtttgta ttacctagcg tgccttctct ggactagta gctttaacca 1260
acccttaatt tccgatttcg tgagtttaaa ccttcctctc tggctttcaa gtttatttcg 1320
gtctgtcatt ctttcggaac gggtttttat cccg 1354

<210> 3496
<211> 647
<212> DNA
<213> Aspergillus nidulans
<400> 3496

ccagcgggcg gtcagagatg ccagggatta cagctgccc ctagaacggg tgtatcgccc 60
aaaccttatt tgacgcgtgc gccagttcca tgataacct actgctgacg ctggcgcgta 120
atgctaacc cttcgtcgag tacataact ccatgggtgg ctcttctggg cggcgcgta 180
acactatcga cgcgatgctc atcctgctag gttaccacaa gaaatagata tactcggtcg 240
cgtgacctga ccgcatacgt ggctacgagg cccttcacc gcttggacat catggaggct 300
ccgtagcaga cggagacggg agagctagcg cgcaaccaca ggcttgtcac ggaacgagga 360
caccttactc tcatgcttag gatgatgacg actgacatga acacgatatc gacctgcacc 420
aagccatagg ctgtaaaaat agctattgca gagtggccac tgtcaacaag actaatattg 480
gccacaaca atgcacaaag atggtcgcac accagactac gtcgatctgc atcacgcaac 540
agtccgagaa catgtgaaat ccgtttgacc tctttgctcg cccagcatgg aggcacccgc 600
gctgactcgt atctgattat tcatatccac cgtgcgcac ctagcaa 647

<210> 3497
<211> 671
<212> DNA
<213> Aspergillus nidulans
<400> 3497

ggcagctgct cattgccggc acgggcgcct caagcttaca gggaagctgg aggctagtag 60
accgtctcca gtttcttggg gagaacattg tgtgctaagc cagcgacct cacttgccc 120
ggatgggccc ccgctatgca cagctccgac acgtcctgac aactagctca ccgaagaagg 180

ccccccgtgg ctggcccaag cgcctaata taatatctct agaagagagc gtgacccaca 240
 cgggcagcca tgcaggataa ctgactccag tgacctctcg ccgcgaaaat cgggtctcag 300
 cgaactgcat caaaggagga cgcggatgct agccaggaaa cgcacgcat tttcctcctt 360
 gccacatgta atgtaagcct tgatcaaagc ggcataaacc tggccatcca gacgctgaat 420
 aatgcagaat gttccattgt catcggacac cgcgagtgac ctatactcat tatagcactc 480
 aacagcactc gtcaactcgc cggcggaagc aaaggcgtca atcattgagg ggaagatgga 540
 ggcgtgaggg gtcactttgt gagactccat gtgtgcatac acgcgaacca tcgctgaac 600
 cttaccctca gtggcgcagg cactaatcaa atggcggtag gtatcgatcc ctatagttag 660
 tcgtattatc g 671

<210> 3498
 <211> 584
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3498
 actgacagat tcacgcggag tgtgacctct gacgtgtgaa atcctcttcc ggagaccgat 60
 gacgcggccg atgactggaa tccgtcggca gctctctatc actgtttgga caagttgtcc 120
 actggggaat gtatcacctt ttgtttacaa catgcgcata cgctgggtgag aactacagga 180
 gggatactgt gggctcggct tatgtgccgc taaccatctt tgatagatcc gggattggta 240
 ctgcgttcta tccatcccat gactgcatat tttttagttg gacgagtcag aattcagaac 300
 caccctctac tccatcccc caagcgcccc tgtcttcgtc cataccatgc tggctgcttc 360
 gtgctgcaag ctttttctgg atcggttggg cttcaccacc agacgtacac tggatcgaac 420
 ctacgatggg agtaacctcc tttcgagtcg ggactcacia caccttgctg gttgatatga 480
 ctattatac aggagcacac gagggatgct tagggctcgc gccgtgtccc ttagttgaag 540
 acgaaaaatc tttggtgcaa tactagacct ggcttgggca cagc 584

<210> 3499
 <211> 524
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3499

gaaaacggat ggaagccttg tgcttaagca tcttgggggc ttatagggtt tttctccctg 60
 cgtatgcctt cacaagctag acttggcctt cgctcagcca attggccagc ccaaatecgtt 120
 ttaccaagtt gctgaagcat tggaaccgaa ccatactatc atggaagagg acaatgatgt 180
 ttatcagctg gctgtgcagg actatcactt cgatactacg gtctcaaaac gtgagggaca 240
 tctattatgg acaccggggg atttctgact cagccggatc gctgacctca aggctggtag 300
 ggcacttgta acccgtgtcc tggcatacga tatacccctg tgacatggcg agaagaccac 360
 aatctggctg actatgttga acctcgcgta ctggatggcc cattacatgc caggacaggg 420
 cgtgccatca gtcctaggag acctctccgc atcgttaggt gctaaacctt tcattctgtg 480
 gaacttattg caatgaagat ctctctacgc atactatgac ttga 524

<210> 3500
 <211> 413
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3500
 ctttgattct acgatccggc tatgacttgg cgccggtgaa cttgacaagg cgcgctatac 60
 gcagaaccgt gtgatgcggc ggaagagccc caatactcat aatgaggggt cgtttgcggg 120
 tgctgtaaac catctcggcg cacagcttgt acccctacga tgcccaccat ggatctcaca 180
 gcaactgccc acacactgac atgcgcaaac gagtacataa tgctccatgc actgcatata 240
 taactcatgc gccaaagtgt cgaaacctat gcgatccgag gagctatctg atgctccagg 300
 ccggatacct atgggtttcg cctgctgct ctgacttact accccaattt cttgaggtcg 360
 acaaatgccg aaccggacca atacgatcta gtcactgtat gcctctgac agg 413

<210> 3501
 <211> 604
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3501
 tatagaatcc ccagatttga atgaacaagc ctttgttctg ctggtaactc ggccattttt 60
 ctgtggcagc caccgttgtt tctcgaggga gaagcaggaa gagacaccac atctcattct 120
 ttgctcctct cttctataca gctaccgagg acagtagacg ctcagcgcaa agtcaagctc 180

actcttcctc tataagattc ttttaagacat gatggcaacc atattagga gattacgtga 240
gagattctct caattcgttt ctgacttcta tggccatggc gacaatatgc caggtacgca 300
aaaccaagga gaaggggaat aacatacttc tcgacaatca tgggggtggcc cttctaaagg 360
gtcgcaatca cagccacctc cataagacgt cgttgatgag caacttgatt tcttagttga 420
gccgcacgc tggattcacc cttatcttctc gtcgcttata gagctagagc agtctgttta 480
cacgaatccc tatggttatt cacaacgtct ttgaatgcaa ctaatgcagt cttaaccttg 540
cgaccgttgg ccgtctatta cgcggagacc acacagcctg taggacatcg tactgtgccg 600
cagc 604

<210> 3502
<211> 578
<212> DNA
<213> Aspergillus nidulans

<400> 3502
agatctggtg cggttggacc ctctggtctc aactggtggg agatgcgacc ggatccaagg 60
tcaatgttgc tggagttatc acccacgggt ccgcatgtga catcgtgctt gtactatata 120
gcctatccct gtactgtgcc gctgggtctg cctactactg tgacatactg tgcacctgac 180
ccaaccatat gccaaaggaca ctgatacctg aactatgtca ggaagttcag cccgaccctt 240
gatcgtgagc aacctattct gtgcaccaag gacgcttctc tgatcgagaa gccaacattg 300
gccccacgcy aacctattga ccgcacacta ttagatctag tgtgcatagt gcggcgact 360
tccgtgacta gtcccgatac tctcatgctg ggaatgtata gcccataatg tctggacacc 420
gattacactc tctcttacag gagctgaaga cgccaagcct tagaggttgg tcgtcatata 480
gacacgacat gtgactcgta ttagaactcg actgattcat aacgattata tgctgtcgcc 540
atgctggggc gaacggtgat ctgttaccgt agaaaacc 578

<210> 3503
<211> 518
<212> DNA
<213> Aspergillus nidulans

<400> 3503
gggcttgctc cgagcttgac tatacctagg acccgcgac ttaccggagc gagcgaagta 60

tgatacagcc gagaggggac acccggcctg gctgaaccgt taccgcttat acggcgaacc 120
 attagctatc ctttgccttc cgtaagcagc ctgatattgt ccgaacctat gataatcggt 180
 gcgggatcag actaccatc ttcctcgatt gcgcgaccat cgggacgaaa gcagacctca 240
 gcgggcggcc gtcgccggga gaagcgggga acaagcgctt acaatgttat gaccaacggc 300
 gtcttaaggc acggacgctc caacagaccg ggagcatcgt gcaaaaccaa tcgtgacttg 360
 tgctcaggca cacacactga ggccggcaac ccagagaact gatgggcata gattgtaccg 420
 ttccatccag cgccagtga ccacctaagc gagccgtccg tatccgccat cttgactgac 480
 agctgacctg ctgaagacac attgcagcct gtgagctt 518

<210> 3504
 <211> 669
 <212> DNA
 <213> Aspergillus nidulans

<400> 3504
 tcgctactta ggggaccag cttaggatcc tgcctcgccc cagccctgta tgcggcgagc 60
 atatacatgg tccttggccg gttgatcgtc catttggtctg ctgagcagca tagccttgta 120
 cgagtgaact ggatgacaaa gatcttcgtg acgggagatg ttctatctct acgggttctt 180
 atgtgtgggtt tattctttat catttttctt ctgaactttg tttggttctg tgttttgctt 240
 gtctcctggtt tttgtttttt tgcggttgtc ttttgtcatt gatctttttt tttctttggt 300
 ttcctttctt ctattttatt tttttcttta tatgttcttc tctttctttt ccttcttttg 360
 tttttttttc tttatttagt ctgtttttgt tgtttttata ttcctatttc atttcttttg 420
 tgtcttttcg tttctcattt gttcctgttt cttttctttc tttcgatgta tctgttctat 480
 ctattcttta tctttacttt tgttctcctg tctatgactt cattctattc tatttatctc 540
 attttctttt cttttttttc attatttctt ttcctttctc ttattcttct ttatttccct 600
 gttgcttctt tccttctttc gttcctcttt atgttttttc tttcactttt ttttttcttc 660
 ttctttttt 669

<210> 3505
 <211> 502
 <212> DNA
 <213> Aspergillus nidulans

<400> 3505

gaaggagtca cggaaagaac caggagcgag gcaccacgat ggaaagagca ggctccaccc 60

accgggtaca aaccgggaga ggcccccgca ggagcgaggc acgccggggg agaagcagcg 120

cgcgaacccc cagcaaggag ccggcgacaa caccgaaaa accaccgagc agccacacag 180

cgcacacccc aggagccgcc caccaaagga cgaccacgg ggaggggcaa ccgcaacccc 240

cccaagaagc gcacaccgac acacccaaac ccaccgaccc aggcgcaaga aaccgcaaag 300

ggaacacaag ggccggagca cccaacgacg cgccgacaga gacccaacg aaaacacaaa 360

aagaacacca cggcgggggc cccccgaggg gcaggaaccc caacacacac acagcccaaa 420

agcgacaacc ccaaacccca cccaaggggg acccaggggc agaacaaggc caccagacag 480

ccaagaggca acccccaacc gg 502

<210> 3506

<211> 475

<212> DNA

<213> *Aspergillus nidulans*

<223> unsure at all n locations

<400> 3506

tctgagtcac gtacttaaac atctcgatag agctcgcat ggggattgta cacagactga 60

tagcatatgg atccaacgtc ctgactgcag atgatgcttt cccttggcca gtgagaccct 120

tatgccagca tgagaatgtg ctcttgatcc tagcacacga gtggattaag ccttccagaa 180

ataccttttt ctactaataa ctgttccgaa tccttttgaa tgaaacgtcg gaccggcttc 240

aaacattatc aaaggatata cccaagggtg attaggcgcc tgcgggggac cgttacatat 300

gctacctact ctttgactgc gccgttcagc ttgacgagta tgctactcgg ctgatcacac 360

caagataatc cactgacgtg gggagtggga tacacggact gacatgatgt taaaagagc 420

gcaggctcat acgatatctt gactggccac taanacgcac tctttttatg accct 475

<210> 3507

<211> 512

<212> DNA

<213> *Aspergillus nidulans*

<400> 3507

caaatggttg ttctatcggg gttcgttggt ctggaggcag catgattcgt tttggtgagg 60

ccagaaaggc gcttggatct attcaggtgc tctagggttc ttcattctccg actataggct 120
 caccatcag gaaagcatgg ctaacagcta gtttcttata acatgaaggc tggctactcg 180
 aaataccgta gcacagtttg ggcgtgtcgg aagtgagaca cgtgttgaat gtctcaagaa 240
 agggcagtct ttttaaggttc tagtattttg tgaacacctg agtcttctga atgaaagtta 300
 ggaacaccaa agccataaac cctttttcaa ctctataat tccttatagt tgttgacaag 360
 gtggtgtgtt gtatatgaat aatcatactc ggcctctgt cgaatgacat caggggtgaa 420
 tctctgccca ccaagtccga gatcaaacaa ttataaactg gcagggagta ataggtgcat 480
 ttaacccac ctcaatttag gtttaattatt ta 512

<210> 3508
 <211> 478
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3508

atggctgccg aacctgactc ctcttttttt gtgacgacac gggctaccaa ccaggcagag 60
 gggagcacct gattctagtg gggggagctc tacagtctag ctatgtcggg ggagtgggtat 120
 gccgactgaa gcttcgcctg gctcttatag ctctcaggcg aacattaggt ggcttttcat 180
 gcacgtacg cggatcacac ccgactgtgc gcggccctgt gactcgggaa tggatgcact 240
 aataaccaa tgacgtttga tgtcttgccg cgagtcctga agccacaaga agtctggagt 300
 gatccattgg aggcaggacg accatgaatg tagaaacagt tctgctgtat aatgccaca 360
 ggagctcgtg aaacgcggac aactatttat gtccatcaac tctcagaaga cacacctgct 420
 gagcggaggg ccagtcatac tngatgattc gtgagaggct gagcagggga ctgcctg 478

<210> 3509
 <211> 510
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3509

aggaacctga ctgtgattta ttggtgcgtg cggggggggg gtgctcaagg gacgtgatct 60
 gcaagtggga ttaagttttt gatcacggga gggagctgtg acggaccggg gcatgcctac 120

cgcaaggcat ccaaggacca ctgttgtgct gatecggggg atcatctggc actgcagatg 180
 gcccaacaagg ttagggagtg aaccccgagt gaccaggggt ataaagaatg gccttgacac 240
 tcgtgggaag atggctagag cgacagaaga acccagaggc tctgcgacca ggccagaaaa 300
 gctggactat gctatccacc aggacgtgac cccacccgc tgagtccgtc agtgggacca 360
 tactgaacac catggtgcat gtgtataaac aatcaacatg agctcggagg gatcaatcac 420
 acgccgaggg cgtcttgtat gatatccaaa ccttacaagg atcaatggca ggagatcctt 480
 ggagcaaccc gccctcaaaa catgccgttc 510

<210> 3510
 <211> 466
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3510
 ctaaacatac tatcgtctga gattacacgg cggcctagta aagctgcgta ccttattctc 60
 gcaccttgct tggcattatc tacgtggggc tagccaacca aaggagaga taggataacc 120
 attgcgcgaa ggacggcgaa tatcaacacc tctacggtga atatatacgg ctctattact 180
 atcgacacgg tcaagagagc acacaactac atcgctcagt agctgcggaa tcatgctata 240
 cagttcacga cgccacacct gatggagcct gagagtgcac agctgtatcg aactggagcg 300
 gatacaacga gcaaggggac ctattgtggc ctctgtcttg atctctcgac catggattag 360
 atcaagtatg tgacttagac ggtagatcag ctaacttaaa cgtacctaca tacatgtaga 420
 ctgcaaggat gactggatac caaacaccgc tggatgcctt tctagg 466

<210> 3511
 <211> 434
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3511
 gataaaaact gcccttcaac ccatattgct ttctccactg cctacccgtg cgaggatttc 60
 ttccggatgg tctgttatta gttagcaaga cagtccgtct tactcgccat ctgtctttac 120
 aagcaggaat acctttgaag cgtgctacca agaacggggc tcgcgtcctt atgtgcctcc 180
 ctcggtcgaa gcaccatgga gccccagac ctctcagttc atccgccaat tccctgctca 240

ctcgtggcaa cacttacgtc atgtccgctg gatattatgc tgcccgcgtc gtcccgcacac 300
 actggctaca gcgagaagac agacgactgg tccaagagtc taacagcgct attctcctca 360
 ggagcaattc gaccttccag tttcacactg gaactacact ttaaatacaa caaatcagac 420
 cgtacttggg tagc 434

<210> 3512
 <211> 638
 <212> DNA
 <213> Aspergillus nidulans

<400> 3512

atgaagggct tattagaccc agcttctccg cctctctcat cgtgatatct catttcttgg 60
 ggaagcccca atgtctcggt cgtcgcgga ttatactttt gttcttcgag aatggaatcg 120
 acggataatc cagagtcacg cgagtcataa gagcttctgg acggggaacg aggacgattt 180
 gccggaagca actccgagtc ctgcgcatct tcagagctcc tcataatatt tctttgaatg 240
 cgcagactcg acgagtggat taaactttaa aagagagttg tgaatctgac cgatctgaca 300
 tcaatgaacg acgtaggtca agggaggggtg ctcgtaggtc ggggacgggtg ttcgacgagg 360
 gaaagcaagg ggtagaagcg caaaacacgc cctacaggac attagtgtaa ggaaagaaga 420
 ttcagaccaa tagatccatc tcaggcgaga atctggaatg tagaagtgag aacgacgcga 480
 cgatgatgga gccagcgatg cggaaacact aggcggagga ccgagactcg gcgagacgat 540
 agcacaggca cactgttgct atcgatcctt attgggatga cacctctact ggtatggata 600
 tacaatgtca ggtctattat tcccgggtac tataactta 638

<210> 3513
 <211> 522
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 3513

catcccgaaa gggttggcac aattgaccgg tgctgtatt gcgagactta aatacgtaag 60
 gaggatcctc aaattggaaa gggcaacctt acaccgttat actgctaatt gtgtgcgcca 120
 gagcttaaca atcacacctt caaccttaaca attcttatat ggggctgatg cccacatcc 180
 tagcaccagg ggtgccatag acgggcctgg aaaccctagc ttacatttta ctgcccgat 240

tctagccacc ctgttaacaa gcggaagggtg tctactaact cctacatggg ggccgactgg 300
atgaatgtac cccttcacga atgcattgcg gtacctccct agccctcggt gaatccccgg 360
agcatgggcg gccttaagaa cccctgtttt ggcctacaac cacgatctcc gtcgaaggct 420
tttgcatatc actgcccagg aacttgtaga gcctcatcag cccatgaaca gcnctaata 480
taaggtgggg gccggtggaa taaccattat tacatttatt tt 522

<210> 3514
<211> 558
<212> DNA
<213> Aspergillus nidulans

<400> 3514

ccactcacta ggtgcctatg ggactcggcc ccgatatcgt gaccccgatc cctcgacagg 60
gcaagcttga tttcttgtgg gcaagggctc caacataatc agtcgggacg cattatgtta 120
agaggccatg tatataatc cgGCCaagc acatctctat tgcacccgga tctttctcgc 180
agccaattgc ccttgccctgc tagctgctga gatgatcact actacgcacg accattgatg 240
tgcagtgaac ggtgaaccgt acgggtcagg tatgggagga acatgtgtcc tcccggctgg 300
gctggactgg acaggagcat tttgtccctc gggcaggagg acgcgcataa tttcaatggg 360
ccagtgtccc atagcgcgga gagcatttgt aacagggtga gcgcgtatgg ggatcatacc 420
tagcettata ctgcctgttt tacctacgaa ctttggacac gcctaacacc cccttgggtga 480
cactttgttg gccctctcct cctttattgt tccgacattg gatgacacta tcctattcta 540
tgattccaac cgtcttag 558

<210> 3515
<211> 409
<212> DNA
<213> Aspergillus nidulans

<400> 3515

cagtacttag agaacctgct caccggggcc accacttgcct atagagccat acgtgcttca 60
agtgccttcta caccaagcga ctagaggcac acgatggcgt tgccctggcct gtccctggcca 120
ggacatacgc tcgaacaacc atcgcgatag acataggacc atttacaccg gcacagatcg 180
acactcctga tgctggctga cctgcaccga tactgcctat actctttatt gactaaggcg 240

atgtgcacac tgccagatgg ccaagacact ggcttggaca tatacttttc gctgcacact 300
tcaaacggct acgtggacgg gagttatggc cgcccttga tgtttttgtg tggaattgcc 360
accatttat tcatgtccac ccgcatgac ttggctgtct cgcagaact 409

<210> 3516
<211> 1075
<212> DNA
<213> *Aspergillus nidulans*

<400> 3516

ggatcgacc attccatgcc tctcacggca ctgaggcttt ctatgttctg atttactcta 60
catggagccg gctcttctga ccaccatgga cgtgatcatg gatggtttcg gatatatgct 120
ttcgttcggc gatctcgtct gggttccctt catctacaat ctgcaaacca gataccttgc 180
aatgttcctt aacgaacttg gcctgcgggg tatcgtcttc gtgctggccc cgacagtcgt 240
gggatacatg atcttccgcy gtgccaacaa ccagaagaac cgcttccgta ccaaccccaa 300
cgaccgcggg gtcaaggaca tcaagtacat cgaaactgct tctggctcca agctcatgac 360
ctctggctgg tggggcctag cccggcacat caactacctc ggcgactggc ttatgtcctg 420
gtcgtactcc ctgcccaccg gggattccgg ctttgtcatt gtcaacagcy tgagcccgtc 480
cactggcgaa cttgagaagc gagccgtgca gacaccagag tcgcgcggcg cagcttttct 540
aatcacctac ttattcttga tctactttgg agtcctgctc caccatcgcg agcgtcgcga 600
tgaggagaaa tgcaagaaga agtatggcaa ggacagggat agatatactt ccctcgttcg 660
cagccccatt atcccaggty tctactagtc ggtgacaacg gctggattga gttctatttt 720
gattgacatt aacatattaa tatatacact atattgtctt tatatccaag gcgcctagtg 780
gcagaaggct tgaaatggca ggggaaaaag tttatgtact ttaagaatct acaacaggac 840
tgtacgatat gaactatcgc ttgctcttct ttgaaccctt tggatccatc acaacgggaa 900
cccccttag attaaaaagc tttccccctg atccatcttc acccccactg cttatgcccg 960
ttattaggca cccaccggc caaatattct tcgagcattc aaggcctgcc tttagcaaga 1020
acgacaccgt taaaaccctt tggctcctga acttttatat gtgccccggg accca 1075

<210> 3517
<211> 389

<212> DNA
 <213> Aspergillus nidulans

<400> 3517

```

ttggtgtaac cgacgattct aggggggctt ttttaagatc gacggttgta atacaaaccc 60
agtacaatga acatagctag cacacgggct gctcactagg gcgcatttca cagaccacac 120
agttgggatg gtcaataaaa ccatttttacg taagtcagat gagggaaaaa tacttttacag 180
tgaatgacta ctcacgggca cttggatcgt ctatccatga gactgtagtg aatacactca 240
ctactggaga aaggttgaat acaggagaac aacaattatg gctccaaagc ggggatgaca 300
tacgagaagc atggacaacc aaggtggttg ggtactgagc gaaaagactt ctgtgtaggg 360
cagataagcc agttccaaac ggacaagac 389
  
```

<210> 3518
 <211> 1411
 <212> DNA
 <213> Aspergillus nidulans

<400> 3518

```

acttcgctca agcgcttacc tccttctccg cgcaagcaa acttaggccg agggttctca 60
cgggagaccc aatgcggtt tcccagaccc ccagcgcccc ctgcagctag caagaccggc 120
ttgtccatat gttgcgagag atccaggtat ataggcgac gcggttcgag cgagcaata 180
ttctgcctcc gtggcggtt gctgggaaac acggtcgtca ggaaatcaga cgggttcgcc 240
ccggggtaga gggcccagcg gtcgtggcgg atgggctgaa aatcgagatc ctgccgctcg 300
tcctcgctct cgccctcgcc cgacttcgcc ttctccttct tcattttcct ctccagtga 360
cgccgtcgct gttcctcagc gaccgggtcg taccgatcca cttcgcgac cacggteccc 420
actggaacct ggataagaac gtcttcacca cgtttaccac ctttactttt tccttgacca 480
ttcttgctc tggttgctct gattaccca ctgcgagcaa gcttgtagtag actggtgagc 540
ccttcaacgg cttggatata ttcactgcca cactgccgt catcaccgtc atttggtggc 600
ccttcgggaa tatacttttc cctctgaaac gagacgcaac cgtaccacc gtcgccggca 660
taaatcggtg agcggcaacg atcttgaaag atgaaccggg agtagtcttt gggtgacgga 720
ttgagatgtg aaggagcgtt actagcaatg gctgcgttta tggactcttt tggctcggt 780
tctgtagcgt atccgtgacc tgtatgggtg ttattgcgct tataactatt tgggtggataa 840
  
```


gcttattcac acctttttta attaacaaac cagcctgac tatgaactat tttcatctag 900
 ttaatttgct tcctcacttc attatttggt tctaggaac ggggctattt ctgggtaata 960
 tatttcggtt ccgcattcct tctaaatatg gtcttaggta ctttttaaaa aatacctttc 1020
 taggtttggt tactttttct acaagtatgc tatgtttcta atgccttaca atattctcta 1080
 gtgctagttt catttagttc ttaaaatacc attcctccc tttagactgg acatatcccg 1140
 ggctttaata acgtcccttc tattttccct ctagtaacta cacattataa agaccaccga 1200
 attcttggtt atttctttta gatctttttt tatcatttac cttctcatta ttatcctata 1260
 ttatttggtt ctcataattc ctaacttggt ctacctcct tatttttggt tacgtaatta 1320
 ccttcattcc tccttcctct tagagtttcc tatttacctt ctatcatctc tctttatctc 1380
 ttctatctaa ctactttctt ctcttattat c 1411

<210> 3519
 <211> 469
 <212> DNA
 <213> Aspergillus nidulans

<400> 3519

cggctcgacg gcatggtctg agtaggctgt ggaacagttt gggctgactt ttattcacat 60
 tttaccggcg agccacctga atacggggtg cctggatgac gcgcttcgtt acagactggc 120
 aagggagggt aagatgcttt cagcaggacc agttcatgcc agcagcaact ctaaccctg 180
 agaataccca tgaggactat agatcctgaa gcctttgacc gggctgtctt aactgagact 240
 aatcttgggt cagcgaatgt gctgatgtcc caatccttgt cgttacggtc aacagactgg 300
 aacattatga gggctagggt gacacataca taccctagc cggttaattc acgaatcatt 360
 cccgcgtaca acagtgccaa taacataatc tgtgcgacgg agaaatggct tgaatactgt 420
 ctggtgcgta atagatgcgg catgcaggcc gatatactct ggattgcc 469

<210> 3520
 <211> 510
 <212> DNA
 <213> Aspergillus nidulans

<400> 3520

aagccatgta cttagacagc gtgtcgagct cgtccgacgg gctcgacagc aagcaaacac 60

aatatccatg ggagacgggt cctcagaggc gatttctgga gcctagggta cctagacctc 120
atggggggcgt tcgggggcct ccggcactct gtctgggtggg ccatgcttac ggctggaact 180
tgaggcaact ctctcggagc tcctgcagct gtgaatatgc tgtgtctgac cagcgtccac 240
tatccgcttc tacgcctagg actcgatact ctcgctgaac agctgtgtaa tagctgtctc 300
actccgagtc cgactgacta ctgtcactga tgcctcagcc gacactgacc cggccgagga 360
cccccgagac cgattatcac ttgttgacgc gacgcagctg ggaaccatac tgatatgaca 420
tagctgggag atgcatgcgc atattgttcc gacggcgcca tcgatgcctt tgcattgtct 480
gatcgtgggt acgtgcatgg atcgacacct 510

<210> 3521
<211> 800
<212> DNA
<213> *Aspergillus nidulans*
<400> 3521

gatggttctt ttaagttaga agtactctta gtggtaaata tcctaaattc gaatgtaagt 60
tggaatatc tcaaagacaa acagatcata aaggtttttag taatcaggag tttttaata 120
aaattgctga tttctttcac actgaagtta aagaaacaag attaaataga tctactccag 180
agtatagagt tagaactact aatttacaag gtaataatca agcaaagagt tattttatta 240
aatatccatt gtttggaact aagtatttag attctataga ttgaatgaaa gttgtagatt 300
tatttaataa tggatgaacat aaaactgaat taggtaaaga aaaaatttta aatataaaat 360
ctaatatgaa tgataaaaga actgttttta cttgagatca tttacaaaat tttacaaat 420
tgaaaatata aaatatagtc caaacaattt cgagagaaat tgagtgtcta ccttaaataa 480
cttaccctaa ggggtaagtt tttttgaaac aagttttata cttatagtat gggattttat 540
tcgttcacca atatattggg ttttcctttg gttaaccgtt gaaccttatt cctatttttc 600
aaaaacttgt ggggggatcc ttttttcaac cttttttgtc tttggccctt gggtaaattt 660
tgttttaatt actattttct cccgtaagta aattatacta ctttatgcc aaaaagtatt 720
ccttgctttt gcctttttta aggactcacc tttcgcgga gggaccgatt tttttattga 780
attccacata cttttgttgt 800

<210> 3522
 <211> 1022
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 3522

acatatgaag aattgttcat atcacattgc ggcccgtctt gggggataac ggaggctagg 60
 catatgtggc tagagggcgc cgccccctcc tctgcgtctt gctgaggagt catgtaacca 120
 ccaaaaagttt gcacagcctg ctgctctgag tcagatcggg agcctagggt tgctggcgcc 180
 tggattagcc ctattatcac tcagctttcg accgggctg taaccggagg ctgagccgac 240
 cagtcaaaag agtgccagat tgcatttacc acggctctgc tggccagcat ggacgtgatt 300
 acataaagca atggtgagtc ttccgcgagc tgcgaccaca agtactgagg acgaggcagc 360
 ggggtgctgct gatgtacagt acatctggcc ttcagcaact gacatacggc cgaccgtcca 420
 ttcggatcac tcgcaacccg caaggcatct gacgctaagc atgggttggc tcgactaatc 480
 gtttggccct tggggcgagg agtggtgct aggtcaacca gctggccgac ctcttgccga 540
 actcccatgg gttgacctg aaaagtgtat gcaggcgcgc aagcttagtc gaggggctg 600
 ttccaaccat tgggtttgca cgagtgcata cctgccacta tttgccggga gtggtgatac 660
 tggcactgga caggtactcc ggattagacg gggattcatg ccagctggat ccgacagtgc 720
 agatactgga gctgtggaag acctacttgc tgcagtgttt catacgcgag cactgctaag 780
 ggtcttgctg gccaaagggg acagatgatt gccaggatag gatacgtccc cctatcagac 840
 cagctgaacc ttggcngaaa ccgcaaaacc gcatatgcag cattcaacca attgactgat 900
 aatggcgtaa cagctatccc tgggaaaatc ataatgcact gacaagcagg aatgctaagc 960
 ttcagaactg gaacggcttc gccctaagac cattttttta tccatctaatt ccaggtc 1020
 tg 1022

<210> 3523
 <211> 575
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 3523

accccgtag attagtctaa tgtggcaaac tcacggcaac gaatagtttt caaacctcgt 60

caccctaaag gagcggatgg gggtctttcc ctttagctct atgccagttc gcgagtagtt 120
 gctgccttat gtcaacaaaa tccaaatccg cgtgtttccc tggcgatcgg aatgccaacc 180
 tcaattcccc atttggaac ctggtctgct cgcttcttcg cctccggcca ctcgagtgcc 240
 nncctagtgc ctctggaaag gcgtcaaagt cagaaactcg caccaaattc cggaagtaaa 300
 tttctgaacg tacagcagac ccattatata atgcccggat gtcttgcgag agtagcaatt 360
 tacctaaaaa gccagaggat cggaatggg aaaagaaacc gattgccccg caggtagcag 420
 gggaacaccc cagagcgtat aacacttctt caacgtggga cagccgacaa gagaggtaaa 480
 atagatgtcg accaaacaat ctgaggctag ccgcaaaaga cgcaaaccac gcggagtgat 540
 aaataatggt gaggggcatg gaggggaatg cgctg 575

<210> 3524
 <211> 632
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3524
 agccaacact ttgggagaag ctgtttctag ctgccaagc tgcaatctcg tttggattcc 60
 tctagacagc gctaggttcg tggaatcaag caccgcaggt atcaactgtg gttgccactc 120
 cagactgtgc gacacatgct gactgctagc tcgtatttat acatgatgca ctctacaaa 180
 ggtcttatgg cccgaaaccg ctccattata tagcttataa cgaccgcag ctgatttgtg 240
 gataaggctt tgcacatatt tacttgaact gggtagcagc tgacatgaca cccacagatt 300
 actcacagca ttcctagtgt ggacctactc atgcacgcga tactggacag gatggctacg 360
 tgctgaccaa ggaacaacat gtggcttgcg agacaccatc tataactaaca actaggtgaa 420
 tggtagcaga gcagtactat atatgctacg atagcgtgaa ggcgtggtat attatccatc 480
 tgcagtccca atacggactt agacggcaga tactcactaa gaatccaaga ctgctccagt 540
 agcagcgaat ccgaaccatt agcaggtatt gccgtatacg atagctacgc tcatgttcgc 600
 gtttaatat acgctgggccc tttgagatga ga 632

<210> 3525
 <211> 1266
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3525

cagtgataaa aattttatatt gttgataatt ttctatatct acgatttaatt cttttatttc 60
ttaatttaga ttctatatatt aaattatatg aattaaaata acctttaatt aatttcatta 120
ctaacttact tgcaacaggt attaaactta aagtattttt attatataca taaatactat 180
tttttcaatc tcttacagca ggtacaaaat ttttattata aaaacttaca ttctcatcat 240
ttaatgcttt ttttttatat gtatttttta ttttagattt tataatattt aacatttata 300
tttatttatt tgtattaata ttaatatatt ttattatata atattaagct tgatatataa 360
ccaagtctat ttcattatta ttattaaaat aataataatt attatacata ttactaaata 420
attaattaag atgttgggca tgattaaagg attattgtta gcaatactca ctttttagtc 480
gttgaacgtt ctttattttt tagaaaagta attgataatt actatttcat tgctaaaaat 540
aagtttcgct tcaaatacac ttataaacat aagttatttt tgaaatttac ccaatatatt 600
tccaatatat tatatatagg aggacttaca gttaaaaatc cctagcgtaa ctttttctat 660
aatccaagac ctttccttaa tgcactttgt gatcatatgc cccgcttacg cgactgatag 720
actttaggtt caaacagtaa agcaagattt agccattaaa cttttaaaagt ataattaatc 780
atcatattaa ttaagataat atacaaaatt aatatgacaa aaaactttta aatattaaag 840
ttttaaatat atctattaac catatagtta aaatcttact tagataaaaa taaatatttg 900
acttaattta acaataactg tatatttata aaaataaata tagcaaatta aaatatttgt 960
aataaaatta caaatttaca atatgaactt tggatatacc caggtatttt ttgtggatct 1020
gtgccccgat aaccgccttc catcttcaaa gctatttaag aaccaattag gttgttaatg 1080
tatcttcaac acctaatctt gaaacatcta aattaatttt gcactgaaca gaaagtgaag 1140
gggctttttt tttagaggac agttctgctg tttcaattat ggaaatattg aacgtgtgtt 1200
gttgtttttg cgccgttttag gcagattgtc ttgactttga aggcgccttt tggcttactg 1260
tttaca 1266

<210> 3526

<211> 502

<212> DNA

<213> *Aspergillus nidulans*

<400> 3526

ttgcgagaca gtaggtgtgt aacgttgaaa ggcttccggg cgacatagca cggcggtcag 60
 catgttagta cggctcagtt aaaaacgaga tacctgttcg gcggagggtc tagcgcttca 120
 agaagccttg ctgtgaagtt tcaaagacca ttcccttcac agagcgccag agaatttgcg 180
 agtcgtccaa gacgatccgt gctcttggtg ttcttggcga gtaatcgcca ctttcttgag 240
 ctcttcttta tttgttgcaa ggcgagaacc tcgaagccag gcgaagcgaa tagggctacc 300
 gtagcatcag tatagaacga aatgaggatt cagtggcaga agactcactc tttaggccgt 360
 cggaccctaa cgacacactc tgctgaagcg atttggcgca actccgtttc cctgccgacg 420
 tcagtgcac gcattctcga aagtagacat ttgatatctt acagtctttc catgaaaccc 480
 ggtagcaagg agttgcctcc aa 502

<210> 3527
 <211> 572
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3527
 ttgcatctca gaactaatgg aatagagcat aagaggatga ggatatgtct cccacttggtg 60
 cttatatgtg cttttatcct caaaaattat cgctgactgg ggggggttgg atagatgtga 120
 caagcctact gcaacagcct tgaggagggtt acttgctctc aagtgaagct gaacccttct 180
 gcgaagggtga cgggccacag tagaagataa tgtcactgcg ctctagtatc gcatgctact 240
 gatatgattt cccactggac actaggcgat actaacagat cgccaacgag taagatgagt 300
 ccaagagccc tcttgacctt gagacgcagt aaaaaccatg ctaaggatcg attccctatg 360
 cgagtgggtc cactacactg cccccgacga acgagtgatg attacctccc gataactacg 420
 tagtgagggtg tgcactataa ctactggtaa tggagagcct catcggggat cagcaacaaa 480
 caacctgatg gcgagttatt agaaaccgtt gaagacgcgg agtacgcaca agccacagct 540
 gtatttactt cctggaaggg aaggagctgt ta 572

<210> 3528
 <211> 528
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3528

ctatgccatg tactgaaaga tacttaccca acgcttcatt tttccactct atgccctgcc 60
 tgactagcat acggaccatg ctgccgtcca cttgggttgca tccttaatat gattgtgtct 120
 gtttgctatg ccaaagatac aatacctgct gcacgattga actattatag aggccttata 180
 gtaccgatga gtcaccatag ctgcctgtta gatgccatga ctccatctga tgcgatcgca 240
 tccagaacat actgattaca acagggggta cgttcagatt ccacttccga tatcatcata 300
 actgtattgg gacctggaag ggcattactt ccatgtggac gcaaacattc ttgctgggtgc 360
 tattgatccg gtcctactag ccgctgagac cgacctacat ccaccctgag gagcatttcg 420
 agggcccata cgttttactg ggtcagctcc ttgataatta acctagttag ccgctgcctg 480
 gtagcgcttt tgcacacttt aaatacccct ggcgcgagtg attaacc 528

<210> 3529
 <211> 525
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3529

ttgcgaggac aagccacggg ggccgagaat agttgggcac tgctggccta aagtttcctt 60
 ctattgactg aacaagagac acgcttgat gggggctgta ccgaaacctt tggaagtatc 120
 atagcctgca ctgaagggtgc actgttgaag gtcatacag gcgaaagcat cggtatagtg 180
 atgtttatag agccgctcac tacgcaggcc tggaactctt aagagaaaat cggtatagtg 240
 acatcgggga acgcccgaac ctgagtctaa caggggcgaa acctctactg aggcagctaa 300
 gcaaccgaac cttcaacccc accgtcgtgt gattaaagac aggtgcccac catctgactc 360
 ggatatcaga tgttggaact gatggtgtac caccattcca taaacggntg ccatgacttt 420
 attctcaaag agcactgtcg aagctttaca gtccactagc ttatacgtcc acctaaagaa 480
 ccagccgtca tggaggaccc ctgtcacgat gcaaataacc agcga 525

<210> 3530
 <211> 420
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3530

gtacgttatg ggcacttggc gttgtagact cctgggcttg caattcgatg tactacagtg 60
cgttacagag gtggcactcc tttggagggg acggggcgtc tctactgact ataatgactg 120
cgcttccact taacttagac accgtcctat gtcgcaggag agcctgctta aggcacggcc 180
ctgtaactgc tcttcctggc accaatactc gactatgaaa tggggctaata actagctggc 240
ccttgggtggg cagactcgac aatatggtaa actcgctaag aaactgttcc tgatctctcg 300
agatctctcc ccatctggga tatcgaactc tggccctcga gatgatgctc ctcttagcgg 360
accactgggg cgaccagcta aatttgtaa tcccgcttat gcgccagacc aatgccgacc 420

<210> 3531
<211> 378
<212> DNA
<213> *Aspergillus nidulans*

<400> 3531
ataaacagag ggggtacatg tgcgccata aaccaattga cactcgcgac gtatggctat 60
aaacaacagc ctgctccgct ccatctttct ggagcaatgc tccactataa aggtgggacg 120
gcaggaggat caaaaccaac ccagaaaacg atgcacacgt acaactcagt acgcaccgat 180
gaccacacaa agactagctc cccagccttg aaccaatgca atgctgaccc tatgcgctta 240
aacggactga aggacaccat cggagtccta tccacagggg gatatgctca attctcggaa 300
gaacaccggt actgcacggc tcatctttga cgacactact cgtaggtctc cccaacggaa 360
acaaagtgga cctgtaca 378

<210> 3532
<211> 688
<212> DNA
<213> *Aspergillus nidulans*

<400> 3532
acctccgctt gtgggatcat gctgaacggg ccggcgcgcg actatcgctg ggcttgggggt 60
ttcggtttt tcgcacgtgc ctccccact cgctcacggg accgaccggg catatgaacc 120
tagtccgccc ttggtcttca tccccaagtc tcgtgtttat ctacaacggc gtctactcgg 180
acgatttggg ttgagttgac gctgaactcg cgtacgttcc gaggtacccg tgctactca 240
ccaccgcat gaccaccgct gctccctatg gccggagtcg gaaacactcc acctcgatta 300

gggcgacgct gctatggacc agctttatag gatgctggtc actggacggg acagcgcgct 360
 aggagacctg ctacaggggtg gcaaccaggt ccagtcata agggccgttc ccaacaccga 420
 catacctttg aaagtcatca gactcctacc gacggtcctg actaacatgc gggggttcgg 480
 ctcatagccc gccggactta ctggtcacca gagtgtacc aacacctctt tccgtcggag 540
 agcccagaga acatcctagg agcgtgatcg acgcatgtgg gcaggttcgt ccatctcaca 600
 gagaaagttt tgctgaagg atcacgtgcc acattgcttg gttggggaac cgttctagag 660
 ggggtgcgtcc ctctgtgtgt tcggcaca 688

<210> 3533
 <211> 474
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3533
 ccccggtttg ttgtccctt tttgccgaag ctctgaccgg ccatatacct taccctgctg 60
 cggagatcag ctttttttta gcacagggct agcaggcacc atcccaggat agatgtcagc 120
 ggctcctggc accggtctct tcggagcggg acatgtcata acatgactag ggagccctgc 180
 actgggagcc ccgatacttc aacaccactt ctagtggagt ccaagaagct atggcctgcc 240
 gggcagtata caacgaggat ccagtcggca tgcttccaag cgttgatgac acgcctcggc 300
 acctgcttgt acgaccatgc tccggatctg ctgactgagg aagcgactac tctaaaggct 360
 gcgtacgcct gtgcgccata tgactctgct tacctaattt acgggcagat agagcctacc 420
 gcgtggcgcc atgccatgag acaaccatcc ccggacttga cacattaaac aagc 474

<210> 3534
 <211> 465
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3534
 atgtccatgt actctaaaca tcacattcga cgtgcacaat tgcgattata ccctctaccg 60
 cacatcgcat agccataccg catctcgtgg tggcctcgta agcaccagtc tgagaagatc 120
 cagagtccct cgtgagacac atcttcatga tacacgcaga gagccactaa tcttgtgtga 180
 caatagtcac cagcgcccca ttgtgtgtaa tagcgtcatg tccttcgtta tcattgcttt 240

cagtgccaac atactatctt cgatgacaga gctgtgcatt gctaactctg attactatgc 300
 ttatccaggc atagtcaagg attttatatc taaccttaat tcacacacat cgtaattag 360
 caacttactg ctctctataa ttgacccatg gcacaatagc ttctactaag gcaccctgag 420
 cggacggctg gctttctctt gagcaaaggc tgtaccttct aacac 465

<210> 3535
 <211> 791
 <212> DNA
 <213> Aspergillus nidulans

<400> 3535
 tctttcacgc tgctaaggcg atcttttttag agcgcttgca gagaagagat agtaagcagg 60
 tgcagtttcc gacttggaaat tttctatccc cttcctcagg ctttcacaat tcgcgtgggt 120
 cgtcggccaa ctccaacagc ccgtaccaat cccaccaaca tcagtcttat gttctatctc 180
 cggtcgactc cgcaagctta ccgcctgaag actcgtatgc gcatatggag gtgattttct 240
 ttttcttgct gctcaaggat ttcgcttctt gggagcggcg ccctgagctt ttacgagaaa 300
 tcctgtctat gaagagcaca ttagccaggc tcgttcgaga acatgggtctc actgcgtcga 360
 gcattgtcgt ggacccccaa caattgggaa gagtgggttc ggcgagaatg cattggacgc 420
 accaaactca ttggttactg ctttttcaac cttcattcta tcatgttcaa catccccgcc 480
 ttgacctga acgcagagct caaattgaac atggccctgc tcacatgacc tttggaagga 540
 atgtagtgtc gcttaatggc gtcagcttct tcgcacccca catggcttgg tggcttcttt 600
 cctggaggct cttacttggg tgctgacaat tggaccatgc agaccaccgc acctatatca 660
 cggttcggaa ctatattctg caacttgccg ttattcaaca agtttttcgc tcggaaactt 720
 ttgctttttg gtgcaaagct gcattgaacg agtttatggg cagatgactc gcccctcccg 780
 ccttgggcct t 791

<210> 3536
 <211> 991
 <212> DNA
 <213> Aspergillus nidulans

<400> 3536
 cagctgatat gttttccctt cttggatttg tttctcttat acctggcggt catattgcct 60

ggatgtgaag atgcgttgat tccatctgaa tgtatggtgg ccggaggctt tcgtccatga 120
 gaggcctgtc gtgcacgggg ccagctggag caggaaagaa gtgtccgtac ggtaacagtt 180
 ggacatttgg gggtgaaatt ccgcatacta tctattggat ttctgaataa acaagcggct 240
 tggtaattgt acgaaaagtt cttattgaca cgatagcatg aagtttgctg ggcgatagtg 300
 atatgaacac caggtataaa atgtctatgg ggcagctatt gcatatgggtc ctggttggcg 360
 tttagtata ttataatatg tcaacctgga aaattgactg cctaagacta atctggtaga 420
 cttgacgctt tttggcttag gagtattttt ccaataatat cagcattcat atcaagcata 480
 tacagactct attgccagtt gcagtagggt tgtaagttaa ttgctttttt gtgtatgcac 540
 aatgcagtag gtggaaggga aagtgggcga taggggtaaa taaggcgccc tgtccctttt 600
 gggcaacttt ttttcctcgc aggatatagg gattcctcgc aaaaaaattt tttacacgcc 660
 cgataatgtt aggtccctta ccgaaaccgg agaaaagatt cgttttgcta accttttttt 720
 caagatggcg gtttttagaa gagcgggacc cttccgcacc catctgggga tggaattaag 780
 cgggtttcaa gcttttcctt ttaatagggg aaggtatttt tttccaatta tattagcggg 840
 atactcttac gtttcaaatt ttataaaggc ccataaatcc cctgtttgtt tttcctaaag 900
 aaagtttctt tttctctttt tattgttttt ttatatTTTT tactcttttc ttttttttat 960
 gactcatatt ttataaacat tacgaatctt c 991

<210> 3537
 <211> 842
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3537
 taggcagttc tcaagatcgg cgatgaccag gatccggatg tttcgaattg gaaaagagcg 60
 tatctgatct cttccatccg tgcacaaact acggtagatc cctttaccaa ttgccgtttg 120
 attttcttaa ggtaccgtgc tttcactaga gtgctgcgcg cgcggaacaat agactcggcc 180
 gcatagttaa ccatgacatg gacggccgca agcatgtcat cgccacttcg cttagaatca 240
 gggacgtcgg aaagaagtct gcttgtgatt gttcggagcc gttcaacatc gaagaccgtg 300
 tgccatgaga tttcccgag ccaggcaacc gctgtgctgt actgctcaag ttcaacttgg 360
 aacgagatgc gcagcatttc tgagttgccg agacctctgg caccctcaat gctataccca 420

acagtgtctc gttccaactc gacaacaacc tgctcaaagt ttatgatctt gccatcgcg 480
tcaacagggg gggttaaagaa ggcttctgtg tagacagaca agagtgggcg cagctgcacc 540
gggacagatt ctgctgagat gaggaccgac agctgaacaa agctgctggg aatgtgttcg 600
aaatggatga atacaggaag atctgatcca tcagcatcca caactcgttg agctttgttg 660
ttttggtgcc cgagttgtag agcagctcca gatctcgag tcattgtctc cagaaatgg 720
atggactcaa ttccgggtat cttgaactgc tccaacatct cccgcgggat ttccttgctg 780
ttctcagctt ttgcctetca agcttctcac aagctttttc aaccattctc accagttgtt 840
tt 842

<210> 3538
<211> 2022
<212> DNA
<213> Aspergillus nidulans

<400> 3538
agactccact cgatgcgaga ccagagggaa cgagaacgaa gatcgcgggg aagatcgag 60
ctgctgcgtg gccacgcta agtctcgaat agagattgcc gagaagaccg attgtgaaag 120
cgccgactgt attcgcgact tcggagttgg acccgtgctt ggctcgaggag aagtagtttg 180
tgatgtatcc acatatggcg ataaggatca tgaccggcag ctgtttccat ttcgcttggg 240
tgatgatggc gacaaagatg acgaagagg gcacgaagca aaatttctgg atgtagaccg 300
agttataaac atcgaggttg atgcattcct ttccagaaga ctcgttgccg tccatgagac 360
cgtagattgt tgttccaaca gttacaccat atcctaggaa gagcgaataa ataattgcat 420
aaatcatgcg gattgaacca gcaatcatct ggtgggactg tagttcgaga ctacgcgcaaa 480
ggacgataaa tccagggagg ataagagcaa tagaagactg ggcgagcgcg gaaaaacaga 540
agagattttg ctcttcgccg ccaatggtac tgcaatgga gccgaaagca cgggcgagaa 600
aagatgtcag cagggcagcg gtgacttcaa agacattgga gtagagcact gatttggggg 660
cgagaacgtg ctgcatgaat ccactatgg agccaaggat gaagatgatg ggcattgctga 720
tggggcgagc ttgaaaggaa aacgggccta cagctgcaga acccagtccg tagagaagaa 780
tcacaagcca cttgttatac cgtggcttgc ggtccatcag ctctgtcaac tctgcaatcg 840
cggtttgaat gtccaccata tcgtgagtga ctcgtttata acaatggtga actgcctcta 900

gccgcccag gtccagccct tggggaacgc gaacgagttt aacctctgcg gtacgagtga 960
 ccgggtcgtc aaatgacatt atcatgcagc caggaaggta catgaactgc gcattaatgt 1020
 ccaaaactcg cgccgtcatc tgcattgact cctccagacg gtgggtcgga gctccgtaac 1080
 gcatgaatgc gcgacagagc tgcattgatat aacgctgacg gaagatgatt tccgcgatat 1140
 gaatcgtcag cttgacttcc ttgctaactt tgcgtttctt cttctttttc ttcttgtcac 1200
 cagtctggag ctcgaccggc ggcacgtctg ccttcgcccc ggcgttggac gaggcgatat 1260
 ggcccatgct catggaagct cgcaccagag acgtgtcgca gtgtgatccg acttttttga 1320
 ccaatgcctt ggcttttatct ttggccgatt cggaggcgct gtcgttgatg atgtcgacac 1380
 cggagtgata ccaggcgtga caagagtagc ctgggactcc gtctccgact cgggtgccga 1440
 gtacaagctc gttgttcgcg aatgctgcgc tgcattcgac tgcagctgca gcagggtccc 1500
 gagcacgcct cctggtaaag aggacggcgc tggcgtatgt gcagatgcct cgacatcgct 1560
 cgccggtttt ccggccaccg gttcattaga agtcggtaag cccttcatgc cctgcatcag 1620
 ccgttcggcc tcggcgcgca cggttgcgtg gtactgagca atgtttgact gtcgggttcc 1680
 atcctttcga aaaatagcag ccaatgcgtc gtcattcggtt gaaccagct tctcagggtc 1740
 aataagggaa gagcccagtc cagcttcgtg ctgcccatt ggccgactca gaatttccgc 1800
 taggcgactc gactgatccc gaacggtgcg agcagctccc cgccatcggt cacggctgag 1860
 gagggacgta cctgtgatgg aaagcgtatc attccgagct tgctctgctt cttcagtttt 1920
 ttcctccccg cggggttccg ggctggcgga accgcttgac gcaggattct gaacgccccat 1980
 tgggttggca actggagttc gtcgtcgaga actcaagaaa tc 2022

<210> 3539
 <211> 971
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3539

aatcccctct agaaagttcg tgttctgctg tctgaagatc aggcataagt cgaattttgg 60
 gaggagccgg cctgttgtca aggctagaag caggcattaa cggatggtgt tttcaaaagc 120
 taccgtcacg cactcctgaa tacgtcataa tggcccaggc actgacggga actcagttcc 180
 acgaaagagt ctcttttgct tcaattgaac cagctagccc aagtgattgt gaatctcgag 240

gacaaaaaca cagggacagc tcaagatggg ctctgctagc gacaaccatt gttaaggggc 300
 gattgaagga accgttgaga gtggaatatt gggaatgcac aggctgatag cttacttggg 360
 aatgtaagcg agatgattaa ggattatccc ccggaagctg cgatctcggt aatcagaatt 420
 gactttgaca caatgtccaa gaacgctaga tcgacgacta cgagccacag tcgaccagca 480
 attccgcaa tgggagccga catcggttga tcaaacgcac tcgaccgata ggaatttacg 540
 gtgaacgccc ttcagcgccc tcccgcagat tccctgcac gcccttgggc gccgaaggct 600
 gtctatacgg gaataatgca gaatataccg aggagtacat ataccacac ggctccggc 660
 actttcagga cgggtcggtt gaagttctgc ttgggtccag tattcgatct ttctcaaact 720
 tacgaccgag tcagtgatcc cttggctagc tcgctgcctt gacctggcct tggtcactgc 780
 ccattcgccc tggattagaa ctccgcatc gcaacatcac acctcacgtt gaggatagcg 840
 tcacaggacg agctactttg tctaagtcaa gcagtctgcg aagagagaag atgatatcct 900
 tggaagcacc attaagcaac agttaattat cgcgatcggg gataaactac gactagatta 960
 caaacttgtg g 971

<210> 3540
 <211> 3313
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3540

atcaaacgaa cagagggcgt ggagatgagc ctctgtaaat catgactggg cactggatca 60
 tagtacttat ctcagggcct aactatcata tcttcaacgc gttgtgaact tccacttcga 120
 tgcaaatcca cgcgttccac ggactcaaat ctctacaac tatgagctta ccacagtttc 180
 ctacctttat gatatattcg tcaactgcga tcggtcaggg cggcttaagc gatggcgaag 240
 ggtacttgtg tggcccgggt gttcataaac ctcacctcat aaattaatca taaattaaag 300
 atggcagttt caaacacaaa cagcgactat gattgcagtg attcggcctc aagcactgga 360
 tagttttccg ccagtccttg ctccgctgcc ttccctcatt cctgaaccta accagatcga 420
 aacggccggc tcgctttgga atcaactggc ttccacgcag ctttctatta cggcgtcttt 480
 acttcagtca gagacatatt gatctcagct cagagcgtac tagccgacgg tttccaaatg 540
 aaacaggact tgccgatatg atagggcatt tgaacatgac tgaggcggca tagtgacttt 600

gtctaagcca gcatcggatt tccatctccg tgatgccgag ttggggccaaa taccgcgctt 660
 tactaagctg gaatctacct ctcggcgaat cctcccatgg atcgtccgaa accctttggt 720
 tcaactgtacg tcacctgctt aaagcggaga tcaccagaga gaacactcca ttcagcctga 780
 cggttccacc ccttcctgaa atcgagtcac ctaaatacaag gcctctttct tagccaaaga 840
 atgcaggaat gttctctcag acgaggtcga gacaagccaa ctgcggcttc tgatgggctg 900
 ggctcggaaa taataggccg tgcagcacat tggtcaggcg aaaattccct gttttgcact 960
 tagaacacgg ggaatctgac tggattgggg cttgcctgtg cttccccgcg ttccgctgct 1020
 gtaccccaga aaattaagtt gccgatctgg ggccgagagt gggcgagtgg acggactaaa 1080
 gtgccccatt tattcgtaca agttgaatag tgtcacagta taaaggactt cttccccgc 1140
 ggtaaagtca cttgaattc caactcggtt aaactccaat tccaactcca catctttcaa 1200
 ttctcatatt ttgctgtgca aaaaatatca tgactatcga cgaagacgag aagactgccc 1260
 cagtgcattt ggagtacgac ggccatgaag ccgacgacga ctccatcgag aatattgcca 1320
 ccagctggtt cgtctggctt gtctccetta cagcatctat tgccggcagt ctctttggct 1380
 acgataccgg tatcatctcc gctgtcctgg tctatctggg aagcgacctc gatggacgcc 1440
 cagcgtctga gaacgagaaa caattgatca ccagtttatg ctccggcggg tcttttgtgg 1500
 gcgccattat tgccggtctt actgccgaca aggtatgtat gcatgcttat tgtctacttc 1560
 ctgggttggg ttgtactaac cttcatctaa tagtttggtc gaaagcctgc catttatgtc 1620
 gggcgcgtgc tatttaccgt cggcgcagtc ctccaaggcg cagcatacag tatcgcgcaa 1680
 atgtcagtcg gacgcctaata tgtcggattt ggtgtgggga gcgcctcgat ggtagtgcct 1740
 ctctatattg cagaactatc acccacaaaa gtccgcggca gactcatcgg tctcaataac 1800
 atgtccatca ccggcggcca agtcatttct tatggtatcg gagcagcgtt cgcgcacgtt 1860
 ccgcatggct ggccgtatat ggttgggctt ggaggcgtcc cctcaatcat cctggcatgc 1920
 ctctccctct tctgccctga atccccgcgc cagctcgtct accacggcaa gacacaagag 1980
 gccgaaactg tgatccgcaa aatctacaag ggtgcctcgg atgccaggt tgcagcaaaa 2040
 gttcggttga ttgttagggc atgcgatgaa tcacgagaac tcaacaaaga ctccacgcgc 2100
 tgggccaaga tcaagctcct gcattcgaac ccggcgtact tccgcgcgct ggtgtgcgcc 2160
 tgccgctttg ctgtcattgc ccagatgtcc gggttcaata ctctgatgta ctactccgcc 2220

acgctgtttg atcttggttg cttctcagac cccgttgagc tgggaatagt tgttgcgga 2280
 accaatttcg tcatgacgtg ggtgaacatg atgcttgctg acccccttgg ccgcccggcg 2340
 gtcgtcctcc taaccgcctg gggcatgtct gcgggcctga ttgctgtagc tatcgcatc 2400
 aagtttatcc ctgtagacac ctcaactctc gaactcgaaa ccgataccgt cagcccacct 2460
 gccattgtcg tgctcatctt tatcatttgg ttcgttttct tctacggcg 2520
 aacacagcct ggatgaacac agatttcttc cccatggaag tccgcgcaat cgggacgatg 2580
 ttccagactt gctgtacctg gggctcgaat ataattgtat ccagcacgtt tctgagcatg 2640
 atgcagggga taacgcgcgc tggcgcgctt gggttttatg ccgctatctg tgggtttggg 2700
 tatacctga tttatttctt ttaccctgag gtctcgggat taagtattga ggagatcagg 2760
 gaagtcttcc aacatggatt tggggtggcc tattcgagga aacttcgaaa gacaaggaag 2820
 gctgcggcca gggcagcgag tgccgcaggg gaagaagtcg aagcgaagac ggtttaagat 2880
 ttcgattcgg aaattcagta tgactgcctt cgtccagttg gagagttagg tcgaatgctc 2940
 gcacctactt aagggtatat ataggtactc ggccagctag agctatcctg gccctagccc 3000
 taacacatat atatatgtta ttgtggtctt ggctcttctt acctcctacg catagagcga 3060
 ctagatcatg atgcactccc tatttaatag ttcacctagc cctgtggaaa agacggtcta 3120
 gaaaatattt tatcgaatta ccctgggttg tgcccaatag tgagcgtaat gataaccatc 3180
 attaccaatg atttttcatt atccttgcta atgcactttt acatcattag cagaccatcc 3240
 caatccataa agagtatcgt cctcagacgt tataaacaca gaacagatag ttatccctag 3300
 ctcgcccata tta 3313

<210> 3541
 <211> 1360
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3541

ataaatcaga caaagacatg cgtaaacc cagacgtcat tgcagccgga aaagcaaagc 60
 tgtatgcggg ggtatcgatg aacatccacg agcccgatc gccgtagtat aacgcgcgcg 120
 aggtagcatg aacgagtagt tcgaggcca caggcacgt agttccgtcc ccacgggagg 180
 cagttgcatt ggcgcgcaca gcaatagcaa gattggtcga gtcagcacca aagaaggcaa 240

agtcttctct ggtgaaattg aaggatgtta tttcggtagt cgagtaaaca gtcgtgtttt 300
 cgtagaccac gcgctggagg gtgttgaggt ctaggatgtt aatgccgtac gcgccaatt 360
 cagtagtccc tataatggct gtaatcacgt agtactgggt tccggcggtt gtggtgagga 420
 aggaggagat atagtagcct gatatagggt tttcgtcggg tggaggaagg gtttgggcag 480
 cggtaatgct gtagagggca gggatacgag actggatgct tgtaggcac gtcacaaacg 540
 ggtcatgaca actgagaagg attatctaca tctattatgg tttcgtcatt gtcagggaca 600
 aatacatagc ccgtgcaatg ggagatagag cataaaatga ggaaagctcg ctgggcaatg 660
 gccagcatac ggggcattgg aagaagcaat gacaacgcca tgtctgactc tcaccccaaa 720
 ggcaacaatc agatacagat gtcatttttg agtgcagcct gagcagagct gtgtacttga 780
 aatctcactc ggcttacaaa ggccgagggt gcgcagagtc ctctaactct aggtgggtgg 840
 cacagcaatt gctgctcctt gttctcctct ttcttacaca caataaataa agcatgtatt 900
 ttacccccac gtcattaccg gtcaatcttg agaccagtc gctttcaccg ggctgagctt 960
 gtcgaaatta tgtacaacag cctcccgga accgtcagag agaggatcgt tacgaacaag 1020
 aaaactcacc gcgatcacia ccacccaaaa cgtagtcagt gtgacctgcg ccgacggcag 1080
 cgtgttccac gggtccttta ccattggtgc cgatggcggt tacagcagga cctgtcggat 1140
 catgcacaac attgccttgt aggacaatcc acagcaaaca atggtaaaac cctccgcgcc 1200
 tgtacaaagc aacataccat ctctgataca gctctttccc gtcacagtca ccaccaggcc 1260
 agggttacaa catccgggtca gagagccggg cgatcatatt cttagcgcgg ctaaaatctt 1320
 tctccataag aggtgccta ggccgacgaa tgagagaaca 1360

<210> 3542
 <211> 6128
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3542
 agtaacggcc gccagtaaag cggagaatcg cagattatcc ccggccaagg ggtggtttat 60
 ggggccagta cggaaacaat gagattctaa taataacgag gctgtagatc cgatcgccaa 120
 aactcgagac tcaaccgggc aggccggcaa catcaaatg gaagtcaaag attcctgaaa 180
 ccgggattta gtctcacctt tcaactgtgct gcaggagcca tccacgggtg tttccactta 240

gcgcacgcca tccccgcgaa cgaccaggac gaactgcgaa acaaagctag tctcactctc 300
 aagtccctta cggctatctt ttacactgga ggacgggagt gtatttcaag aagcggccac 360
 actgtctcga ggctgcccag gggacagaaa aactactatc agaagtggtc ccagtttatc 420
 ttcaatactg ataccggcat ggtcctaata aggaaaatcc accgaagtac ccagcagatt 480
 cgtctcttgg gcttgatacc tgagtaagaa gtaatgactt cgccatgaac aatattgatg 540
 acttggcgat ttccagtcaa tgcgcgcaaa agagtcggac caggtacggc gcgatgatcg 600
 accgacaggc gagcgggtga gacaaatgaa aggagctcaa gtctcaaact ctacgagggg 660
 tccatcgctt tgacattggg tctagacaag aaaaaacaag gttatttctca aatgccgttc 720
 cgaggatgca gccgtcccaa atatgtatgg tgagatggga gtgagaggat cgtttgaacc 780
 gccgtcagaa aatccttctt gcggggcgca ggtggagtca agtccgaagc gaaatgaact 840
 aaaagaaaag ccgacaagga aggaaaatgc aacagagcag atcaaatacg tcatctcagt 900
 actcaggaac cgaatgactt ctgcagtctg gaagagttcg cttgcctagg ctctggcaca 960
 tacctgaatc tagacaggca ggaatgttgg gcaaccagc ggatcgacat cacggctatg 1020
 tcggtagggg agtgtccgaa cggaagtaaa tgatccatac ctatgcgaaa cacgatgtgt 1080
 ctgggtcagc cctggaggct gtcacgggta ccctgtatgc gagcctaggt agtaggtgag 1140
 tatcgcgggg tcaggtccgg aagcttcttc gtcaatagtg aactcgacgc cagttcctat 1200
 caatctcgac gctctccctt acttctccct ttccaccgta ccactttgct ctccatctac 1260
 tccgctcggc gccacttctg tcagttgttt cttgtccttt gagcgtagtt tgccgtgcat 1320
 ctttcagtcc tgccgtcttc ctctgtcttc cgcgggaccc ccttgttcac agcagggttc 1380
 tcgtaccagg gcggccatcc agcggtaaaag tggtcattga atctgggtgc tttccccgcg 1440
 tccaagccca caatatagca gtcccagccc tgacagcgaa tcgctgatcg cgggtctgat 1500
 ccttgtccca tcaagattcg ccggcatgac atcctgcca gcgctcattg ttctccgtta 1560
 gcggctgcag caatctggcc agcatcaggc catctggtcc aatcaggtag gtacgggacg 1620
 ctctcagtgt tggttctgtg tttcccttgt gagagtacat tcaactcgaat cgaacaaggg 1680
 gaggaaggga gaagaaaagc aaattaatgg aaataataat agaatttatc cactttttca 1740
 ccaccccggt cttggattcg cctcttctgc acttgcattg ggaggctact gcttgtcgac 1800
 aaacgggcgt ctttcttttc tttttgcctc tcgtgttcat gccccccaag gcttacagtc 1860

cgggtctcttt ttgacgggggt tgcaaatacgc agcctcacaa gtcatacaacc ttctttgttg 1920
 cccatctcct gcacaagcct cgcgcacagt gaggaggcca tttgcagcgg aggtcccttg 1980
 aagccgttgg cctggctgggt gtgcactaga gaactaggta gtcacccgct gtccaaaggc 2040
 ctgggggggct ttggctggaa tcctgcagca atcctcgcat ggggagctcg tcccgagaaa 2100
 gaaactaaag aagaatcagt ttcagggcgg tttgcgccat gagtgtccac ctttagatct 2160
 catcctggta cccactgagg cccactcact tcgtctattc cattcctagt gcacggggagc 2220
 ttccagtaat ccgcgtggcg acgaccggta tatectctg cggagctgct gtccgaggta 2280
 ttccccattg tggacaaatt gttcatcact agtatcacgt cctgtccct gcgccggatt 2340
 atatacctgg ccttgtcctg gaaacttate tccaacgggg ttccaggccc tgattgactg 2400
 cctggattga ggccggccac ctgtctactc gttccttcca agactcttca ttttgttcac 2460
 gttctctaca atacaccaac tctgccaac gaagaacaaa aggagcaaag gtatgtactt 2520
 ctacgtgact tggatttcac tcaaggctat gcccgcatat ctgtttattc tcttggctaa 2580
 ccttgcgctg gttttccagg ttgtctaagg gttggctagg gcttagccca ggctctcacc 2640
 cattcgctg agtgccctcat caagctattg atagagacc acggcgacgt tctcaaaaac 2700
 gtgttctctg ccggctaaag gctcggcgct tgcaaagacg gcattcgtct ataaaacgaa 2760
 acgaacgcca tgcgtcggc ctactatatt ggacccttcg ggcgtatgtt acctattgcc 2820
 gatggtcccg cggagcaaga accggatcgt ccagctaacc tatcagttcc gggatcccat 2880
 ccatatcaac ttccaccgcc tcgtacttca gcaccattac agtttggaa agatccattc 2940
 ttacgtccac gaaatcgagc cgacaggcta gacgagagag aagagccttc cgtttactcg 3000
 agcagtcag ggtaccagca aacgaacgag cagctttcct ttgtcagtca actttttaca 3060
 cctaccgcgc aattaagccg gtcgccatca ccatataacc caagtgttt tgggatctac 3120
 ttggcgccac acgagcctgg agaatacccc cagcgctata atgagacaac cgcgccccct 3180
 acacaggcgc gctcaagcat ctatgaaaga tccagggcgt tcccggacgt agcaacctcg 3240
 ccgcaatcga aaaacttacc tcctatatct cacatttcga ctcatgtcc tggccgtaat 3300
 acgccgacgt acttgagtaa caacttgaat tcaattcacc cgccatacct acctagtttt 3360
 catggctata atgaggaacc caacggcaga aatttcatga agacccttc actcagtaca 3420
 actgagttga gtcagcgcg tgcttctggc aaatcagcga aacctcaagt acgtctgcac 3480

gtcgtggatg agcgtttcat tgaggggtgaa ggctgtgtt atatatacgc tgacggctct 3540
 cactgcccc aatcattga tggcatgcc gttaacgcc actgggggggt cacgaaagct 3600
 ggcaagcctc gaaaaagatt agcgcaacgc tgtcttacat gccgagaaaa gaagataaag 3660
 tgtcatccaa acctgccgaa gtgcgaccaa tgccagaagt ctgggaggga atgcagattt 3720
 gagagtgcgt aagtatatgg acaacagagt gccacgaacc tgaattgctg atgacgttca 3780
 gaccgcgtga caccgcgcag catcgaaggc gtcgcaattc acgaggaaat atgatataag 3840
 acataatact gcaacggagg actctaacaa tgcaggtacc tccagttcac tatattctgt 3900
 tgcgagggct tcagagagct ctacctcct ccctggaaca aactcacagt ctccccctatc 3960
 tgatgactcc atgcttacgc cttctgctgt ggatagcaac cataacaaca ttagcgatcc 4020
 cgaccggcaa tatgcgacaa ggccgcagca ctttcccgtt gaacgtgagc gtatgccgcg 4080
 gcattcaaca ggcagcgtg ccagctcacc atccgcggac tacgcggaga tcttgacgga 4140
 gatcaaggac ttggatgaac acgaccact ggcgactgac tggagaacag acccttacgc 4200
 ggtcgatccg gaatctgcaa ctcatctcac cggatggtac ttcacatacg tgaatgaccg 4260
 cttatactat ttgtttccgc gaagaagggt tctcctttg gctcaattca tgcccatacg 4320
 aagtcttttg ccgataatat gcttctttac tgcacatgg cactgggatc tgtcttctca 4380
 gaccgccctg gtaagatcac agctatgagg agatactccc gcattgcaac atacgccctc 4440
 gagcacagcc agcacagtct atccttacag cttgcacaga gccgcattat aattagcctt 4500
 tgggtactacg caattggcgc actcgtgaaa tcttgggatg ctgccggcgc cgcggtgcga 4560
 acggtatgcg gcctgcgtta caatgtcgaa atggggggag ttattgtaga gcaaagccag 4620
 ccttgcgagt atggcctaca tccacaagct ctgatagaat gtcgtcggcg aaccttctgg 4680
 atcgcttttc tgactgatgt gagttacata tcaatcgccc tctccccgct ttaccctt 4740
 ctgagctcag ttgtctctaa tttccgttac acagcgctg tcgtgcttct atgccccttc 4800
 aacgaccttc atctcctccc aaacagcctt cctacgtctc ccttgccgcg aagagattta 4860
 cgaagcccag gaatatacca cagttccctt cttccaaaat ttccttaatc aagtcccctc 4920
 cgaatcggac gaactctcca acctaacgt cttggcactc ctcatagacg tgatatcaat 4980
 atggggcgat gtctctgacc acgttttccg cctatctctc atcccggcag attcatacaa 5040
 caaactcttc gaggatttct ataccgcat agtccgccga tcagaccagt ggctctcaag 5100

gcttccaaac cacctaacat ttacggctgt aaacctcgaa cgcagcatcc aagcacgaaa 5160
cactgaccat ttcatctcaa ttcacctttt gtatcatgcc gcccttttaa aactcaaccg 5220
ttacgcacgc gcacagctcc ttagacctgg aatggcaaaa cagtacgttc acacagcccc 5280
caaccatgct gcagagatac tccgcaccgc actcgcgctt gaacgctacg cctccgatca 5340
caacgtctct ccaatgacag ctgacccgac cccaaggctc gaaacactac tgctggatcc 5400
cttccttggc tacataatcc tctccgcagt agacgttctc agcgccggtg gtctagttat 5460
cgacttgctt gagtgcatac accttatccg cgggggactt gacgttgctc gtgacctcag 5520
cagcttcttg aacagtacga agccgctggt gtcggctacg gaatcacgct tagaggcgct 5580
gattgaggcg caccgctctg tttctacgag ccgcaccaca cttgaaggga gagtggcttt 5640
cttggtcgat gggccctcgc tggacagtca aatccagaat ggcgtgcaga agcaggattc 5700
gtccgtgaat gaggacctac tatatggcgg tctgccaagg gagcagctat tccttgctt 5760
tggggtgatg gatgtgtcgt gttcgttgag gaatgtggtt tgggttcgag cgaggcgtga 5820
gtgagtgggg gtccattggt cttatatgga cactgtacga atatgggtta atgctagcat 5880
gtgcatata cggttcacga gattgcccgc ttgtgctgca tataaatatt atgttctcga 5940
ggctcgcccc ggcccatcat gccccctttt tttttttttt gctcagctaa tataaatttc 6000
gatcgagctg gctgtatatg atgtgatatc aaaatcaagc acaagtagca acttggggca 6060
cggcttcaga gaccatgatt cggagtatct aaattctgcg cggacactac ctattatttg 6120
atattgaa 6128

<210> 3543
<211> 721
<212> DNA
<213> *Aspergillus nidulans*

<400> 3543

acgaggttct gggctggaca acccgctatg atgccagct catatcgact attcggattt 60
attctgagag cctaggagtc gcaacctgac cggacgttct ctttcctcga tggccagttg 120
ggacgccgcc ctgtccaggt atccaaccct ctgcaatcct atgtattacc tcccatcaca 180
agaatctgcg cagcgacacg ggtcaggtgg acgccccctc agcacacggt tggagcgcct 240
tacctttccg gctttggccg tgcggagaac acagaaacaa aaaaaaaaaa ttgttataat 300

aataatattg ctgacggggg agacctttct cctgcgggcg ccctgcgggc ctgcatccac 360
taggcagtct gtggctcggtt tcttttttta cctcgacttg ctttttccat tcttttttct 420
ttttcccagt ccgcattcga tggctcttaa atgagatggt cctcccgggc gcgaaggcga 480
aaccaggag cacagtgcgg tgctgaatct ggggaagtgg accagaccga tcacctcagc 540
acagacttca ttccagttta tgacaccagc gaaccttgaa ttttccagat gatcatggat 600
cagacttgcg gaccagactc gcagccagat cagatgatgg atctggccag aaaacgtaat 660
taaccatcta gacggcgctt ccagacagt tctgggtttc gtaccgtacc gtgcacaaga 720
c 721

<210> 3544
<211> 2905
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3544

accgaaact tccaaggcac agagatcgcg tccgggttct tctcctga gatectacca 60
tggatctgat gtttgaagcc aaggataagg agcaggctgt tttggagctg atgaggacgt 120
ataagctacc aggacatgat cttttcaata atattctgcc ttatgtgcgc accgacgaga 180
ataagccgtt caaaccgccc cggaagtcga agaagaaaaa tggcgacttt gtcgaccttg 240
aagcacaggt gccgccccca aagactgttc ccgaagagga agtcggcatg ggtggccccg 300
agcggagggt ctactggcct ccaggaatgg aagaatggtt gaggccaaag aagattgtgc 360
gaaccaaagc tctaaagacc cccaagtcta acaagaaggc cccaccacga gagccagacg 420
gggagcttga tgctgccctg gtcactccta gcaccccgac caaaactacg aaagccgctg 480
agcgggtccc aagcgtcaag aagcgcacca gcagaaagcg caaagcatcg tcgcctgac 540
catcgacccc atcggettcc gacatagaac tgtccgatga tgcaaagccg cctcagtcgc 600
aggctaagag cgatggagtc cgtcgaagtc gacggacgaa gacagtaaac tatgcagaag 660
acagcgagtc agtctgagtg tatacttgac gcaacaccct actatatatg taccatattg 720
ttcacataac ccggcatgga tatagaagca gaaactcact ttattttgtc aaccaatgcc 780
ttttcacgcc catagttggt tcaaccaacg gtgtcaatac ctagccaacg gacaacaacc 840
attcgcacag atgcgcattt cggggccttg cgtgcaaacc cctcacgaga cttgaccagt 900

tcatttcacg cgtcaacatc aaacacgatt atattaaacc agcttcggga ctgaagtctt 960
 gcgcgattct atgctagcgt tacgctagac ccggccgtac agacgtttga tctgctcctg 1020
 caagcatcct atcttgccat ggatactctc cccatggaat taaccagagc tcagttatat 1080
 tctacattac acgacgagat tgatgaggat gcttctcaca cagcatcaac attacctccg 1140
 cttttcgta tttccaacgg caactggtgc taactatgga taacatgaaa gtttcaaact 1200
 cactgccatc actgttcggt ctggatgggt gtctgtctag aagtgaagaa gcgcagagac 1260
 gccctaaagc cattcacggc agcaaagggc caatgccaga ttcttcttga aacttcaatt 1320
 ttaaggctta tcgctcaacc tccacacggc cggctcgggg attatttcat ggagccgctc 1380
 ctgggcgtgc aaaggttggt cagagagagc cattggatta tccgtcgaca aggtcggaca 1440
 actccaggaa tctcctcct tcccaagac gtactttcaa tcgttggtg gaggttatg 1500
 acaccgcaat cgcactgccc tgcttcgcaa aggagatgga gaaaactgag ttgttgga 1560
 gaagggtcag ggaagttggc tagtgataaa acaaggacga gtgaccgagc atctatcagc 1620
 atatatgata gcgagatagt ccatttcaga aaagtaaaat gcatacgggtg atccttgaag 1680
 taacctttaa tgatactcg aaaatgctat acagggccaa tcacgtattg agggatgccc 1740
 tccttggtta aggacgatga aggtgtgcca aaattatata taatctcgta gcaaacgcgc 1800
 tacctagaaa ggcgaggaa ccgaaacatc actcaacatc agccctgtg ccttccccac 1860
 actttatcag aaccagcctg gacagctcag ctagaagggt tgctcccaa gtcgtttatt 1920
 acagcggcac agataattga aacgctgcca catcgtcgtc tccgagcagg tctcgttgaa 1980
 aggcattctt ggtttgtgc cgctcagcc gttgttgct cgagcttgc tgcgtgagc 2040
 aaacatcaac tcaatcacgc taaccaaggc ctggaaacac agactcctc actatccctc 2100
 ttagttgatt atcctacgtc ggtattctct aaagttcctc gaacctggct ccaaaatcat 2160
 tcatacgtc ctggcgctcg ccgcctaatt ccgtaagggt gccagtgcg caccaacctt 2220
 tccctacccc tcgtcgata ccaagccaga aacctagagg caaattctca caaatattcc 2280
 gtataatcct cggaccctac gctggccgcc gtgcacacct ccggctctgg attttccgtc 2340
 acgagattat cccgccttt cgacaccggg cgcaagcgag agtatatcga gcgctcgtcc 2400
 agcgacaggc gaggttgca aagcggtcgc gggaaggaaa actaggtctt acagagctat 2460
 tccgacggag acggcggcgc cggggagtga gcgggcttat cgggggcctg ctggtgcctt 2520

ctgaaaaagc agcgcacgcg gcggggaaag cggaagcgcc tggagcgggc aagagagctg 2580
tctcgatgtc agaatacgng atcgtcttca tcgtcaacat ggagtagcgg ctatggcttt 2640
ggtaacgggc gcgagcgggg tgcgcggcgg aagaaagtct ttgagtattt aaaggcagcg 2700
aatgagttac ggcagtcata cgcggcatcg tggacggctc agcggaatgc gtcgcgcgaa 2760
ttgggtgacg agtatatgaa cacgcctggg gcgtttccgg atgttgagaa tgcgcggctc 2820
ggcgatgagg agatggttat tttcccgagc tatgcgaggc ggctagatcg agataggatn 2880
gcngcgcaga tgatgtcgca acgtg 2905

<210> 3545
<211> 1073
<212> DNA
<213> Aspergillus nidulans

<400> 3545
agatactggg gacgatgatg ccatggctga cgttaccgca gcgagcagca aacccaaaac 60
acgcaccgca caagttactc aagatctccc ggtagacgcg catgctgggg ttgatgagga 120
cgacgagatt acctgaggta aaatagaagg aaaggcgatc atttcttcgg ccgtagctgg 180
ttaatcatcc ggcttatctc gacggcagac ggccccgagg ccttggcttg gagaagctca 240
agggatttga tatcttttgc cttgaaggcc tcctctccag cctttacaat cattccgcat 300
ttcaccaca totcaattct ttcctccgcg ggtagattgg tgcatttttg gacgaagacy 360
gaagccagct ttgtgtttcc agctcctaaa atttcgttat agaaaggctt cacgatcatg 420
tcagcgtgca tgacaccatg ataaatatct ttgctttact cacctcccat cctattggtg 480
acttcttgat cttgccaatc tcttcagct ctccccagtc acgcttcgct actagcgtc 540
gtagtctcaa ccaccaatac gtcctctctg gcattttaaa gtcgcttttg atcttttgtg 600
ctcgctacc gtaccctgat ctgatcagcc tgtagacagt ctcattcaag ctcaggccaa 660
ggaattcaga tcgttccgcc aggtctttgt ccagagcttc ctgtgtttta agtaattgtg 720
acgactcatt taacaggttc cgatgtaata ccaatgtcgg gtcttttagag tccgaaagta 780
gtcgagaagc gagtagaagc ttttcttgtt tgcgcggcaa gtcgctctct ttcagggcat 840
ccgaaagaag cacatttgac ccgtccaagg gtcgatcatc ctggtaaaac agatctttta 900
gcaactcggg atcttctctc cgagcgggtt tttccacaag tgcagacgcc attggccgtg 960

tattgatcat cctgaagaag cttgcgatag gaagtttgct cttcaaataga agaagaacgt 1020
 agttaacaag atcgtcatct ccgctctgta gagctttgtc cagtgcgac tca 1073

<210> 3546
 <211> 1926
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 3546

caaaaagaat ttcacgttga aacaggaatt gattgatgtc gcatccctag cttgccatcc 60
 tgcgcaggat tcctgggcgg cgtgaattaa acagggtcga gttctggaaa ctctacgtac 120
 cgatttggat cagcgttagt ccgttttggg acgagccaac gcgaccactg tccagttcca 180
 tttctccttc tcataaaata tccctcggtc ccggtctctt cacaatcata atccatcgtc 240
 tatttttcag tcgttgtaaa gacacctttg tctttttctt cttcacactc tcttcacatt 300
 ttattatccc cttttctttt cgtctcgcgc gttcattggc gaccccgctc tcaaatgaac 360
 ctgcattatc acctttctcc ggaaaataag gtacagtcct ccaggagatc cgacaactcc 420
 caacaactca gccaggatta agaccctaata cagtcctagt gttgcctctt cccattgatg 480
 aagaggtccc ccgcaagata aatgggtctt aagccgttta cccatatcgc gcgtcagagt 540
 ttcaccaaag ctttcaactc tggctatgct caatcagtag ttgccgcctc gcagtcgtcc 600
 tacgcgtcgt caaccacact caatcatctc accgttgcca acccggcaaa atactctcga 660
 actactcagt tacaacatgt cttccaaccg tcgagttctt caggtgccgg cgcaaggcc 720
 agccagggtg gctcgggtgg tggatgatga ggcttagccg cctactatgc ggcgtggcaa 780
 caagcccagc agactggtga cgacagcgac tggaaacagt tgcagttgaa acgaggtctt 840
 ggctggaaac cgctcacgga ggaagaagcg agtaaagcaa aggacgaaaa tggcctgtcc 900
 cccaccgctc ggtccgatct caatcaactc ccgcatctca cccaggcctc tgtcaatgcc 960
 gatgtgagtg caaaggttga agaagcagtg gcccgcgaga tccagatata agaagaacaa 1020
 gcacgggcgg aggaagcgtc ggaggcgag gatgcctctg ccaccgaggc attcccggac 1080
 ctgccggatg atgtagctgc tgttggtgat atcgcgacag aagagtcctc ccttgcttca 1140
 gaaaggatcg agcaactcgc ctgcgataag aagtttggg atatccctgg tgccttcgca 1200

gctcttcttc gagacggcct tacgccgacc gttggcgccct acaatgcctt gttggactca 1260
gctattgaac tccacgatga tcgatcacag gcgatcccgaggcgctcga tgtttactcg 1320
gatatgcttc gtcgtagggg aattcctgat gaacaaacgt accggatgct ggttcagctc 1380
ttcgtgtacg tgcccacgac cccatgaaag cgattgagtg cttgagcang aaagggtccgt 1440
ttgtgaggaa tggggacctg aaaggatatgc tgacttcatg gcttgaaagg cctttggctg 1500
aggggctttt tggatgcctt aacttttaac ggcactgccca atgcgatttg gttcgatcat 1560
ctccgcattg gatggctgcc cctaggggag ggccatgtct ggatccccag atctaaagac 1620
cctccctctt tcctagatgc cttgttccgg atgaagggtg agttaagatg tatggtcata 1680
agacttttta tcttggagtc cttatatattt ttgaggtatt tttatttttc acctccttat 1740
tattatttat cactaattat tttcctcttt attgattctt tattctttct ttctcatagt 1800
tattataatc acctattctt tctattatca tttagtttna tgtcttcttt ctatgtattc 1860
tcttattcac attcttcgtg tttgtattat ttctccgct actattctgt tatgagattc 1920
actata 1926

<210> 3547
<211> 1524
<212> DNA
<213> Aspergillus nidulans

<400> 3547
ctcctcccta tcccctcgag tgcaggatgt cgcattctgc gcaggagtcc gagcaagcat 60
ggtccgctca acccccgata gcttgaatac agacatccgg tagtgcgtcc ttcggggatc 120
gcagttgccg gcttccttag gtttggagaa gcatagccag gctcacgctc aaggaaattg 180
ggagcgcgag gccgctgtca tgggttggtc tgttggtggg gtactgtagc agtagttgtg 240
cttgagtgtc ttgataaagc gaacttagttt ttatcagtct acattttaat gtactggcag 300
cgggtggttca actgtatttg actctatcta tctcgcatag cctaaggcga taatacaata 360
tcatataaag ctgatacatg acaggactca tgaacatcgc ggtgcagtgg tgctctggtg 420
gatcacgtag gcgtcacctt ccaaagattg gcgaagtcac agggatatata tatctgcgct 480
gaaacgaagc cctattcaat gagacgaagc atgccattgc atttttgagc acctgagccc 540
ttgggcgttg aggttttgaa gtggtcacct catatatgcc tgatgacaaa gatgcgtacg 600

aatattttctt gcatctttcc caatctgatg atatgcgtct gatattcagc atgacatgtc 660
tatgtcatat cttctcgact tgaatagttg cagcagcgag gaggccaaca gggaggaaga 720
ggcgctcaat gtggctgcca cgaaatgaac ttgccgtcga gcatcccgcc aggctttgtt 780
aagaacacta ccaaaggctc agtacctgct aagcaattgg ccttaatgct gttgactaat 840
at ttggactt tctacaataa aacaggcccc cgagcatgcc tcttcatttg tcgttcgaca 900
gcagtggccg tactacttct cagccagacc gaggtgggcc actaacttcc agagaagacg 960
ttgagatgcy tgagcggaag attcagaccc taacacaaca ggtagaggag ggtcaagggt 1020
aaagtccagc caggcgtatc agcaacctga cgctatgtgc cggtagagat ggtgcgtctt 1080
aaagtttggc ctgcgaccat gtaagcttca agctacttgt acgctttgcy cttactgtta 1140
tctcttgtct cttgcatgat accctgacaa ctttgcaagg ggaagatcat acacctcaac 1200
ttcataaaag gatctcctcc taaagcaatc ttgtccgctt ccatcctgtt gatgcggcga 1260
gcgcgaaatc tgggcagtggt tttggttggc atataagtag tcgaggtctc gctgtccctg 1320
ggcaagcggc aaagcagaac tttgatctgg ctagtgggtg gcgccgcttc ttgaggatgg 1380
gtaagagggt ggatttggac cgagattttg gtgtctgggt cgtgaatatt ggggcaacgc 1440
gattctttgg tcttgatttg aggcataatt agctccgtgg gttgggaaga ggcagaactg 1500
gttgcgaaaa tcaactgagag atct 1524

<210> 3548
<211> 2118
<212> DNA
<213> *Aspergillus nidulans*

<400> 3548
taacagaggt tcttttttca gacagtttct tcagctgcgg gcgtcgagaa agcaccgcct 60
cgcaaacttg tcgatgctct atatcgcggt tgccgtttca aaccttgct gaacagtaca 120
agaggcttct ccacacgagc tctaggaaat tcgtcagctt cgcctctcct gtgtcctcaa 180
tctttccaat ctttccaacc cgcgttcagg gctctgaaac ttcgctactc caagtttgca 240
tgtggaagga ccccggtac cagaaccaa gtacatccct cagttattac tgcagtaacg 300
gtacagctag tggccttgac ctccttactc aattaagctc tgtctatcca taggagacca 360
gctgcccagt gtcacacagc aaacacctgc tctctgggt cctctcagaa ccagtcgcag 420

cgatcgtaag agtagccgag ttacctgtca catttgccaa accaaccgcc cagatggagc 480
 tggatcatgta aacgactccc agttcgcttt atctaccaca gtagagctgc ggccctgctg 540
 tagttttccg ctggtaccta gctgggggct gctggccggc gccctgcacc gagcaccgca 600
 cgcaaactct gcccgatcaa tcatatattgt ctaatcgagc gcgctttgaa actatattaa 660
 ctatattgac accatattaa actttccctt attgaggtgg tgcatttaag agcaagggca 720
 aggttcattg aggatcgaga tcgaaaccgg cagtacgtcc aggcgactcc atgacggcca 780
 cgcaaagtc accgcattcc agccaaacaa caccaccagc ggccatccag taagtttgcc 840
 atggtagtgg tattgtaagg ccccgggcca cggcctaatt aatgtgttgt gtgattaata 900
 aacagcaata ttctcctgag ccctggggcc tgacgaataa tggtaggtg cctgtctgact 960
 cggaagtgg tcaactcttc gtctatggct cccgtcgta gcatgactct ttcagagcgt 1020
 tccctcttcg ccctttcgag ccctcggtat accgtaggta catgatgacc tcagccacgt 1080
 accgaacaag ccattcaggt gatgagctct gaagactcca ggcaactcga gtgtttcatg 1140
 ttctgcagg tttctcacta cttttggaa cgcgcgtttt cctccaccgc gtggactctg 1200
 gttatgacga atacttggtg ttgctcgacc atgatgtcac gtgggtcgat acaatctggg 1260
 caattttcgt aaggacagaa gagcacgaat tgtaggcat ctgctacttc aaaaacgagc 1320
 aatttcgcca cttaagatca taatcacaaa ctgtgccatt aatcaagggg atcctattag 1380
 gtgaaacaac gcctgtccaa gcgtaaacac acagataaaa gtgacaatta ggttgatat 1440
 gccaaaatat ccctgtaccg cattaatcat tcaaactcgtc gactactaaa gccgtgagat 1500
 cctcatcttc cgcccaatcc actccgctgc ccacaataat ggcgcttgca acgcttttca 1560
 tggtttccca tttagctttg ctctgtttat gctctgcttc tagttgtca agttgttgtt 1620
 tcagctcagg gtcgtcgagc tgcctccgcc aggactcgtc gtcctcggtg agctcgagaa 1680
 gctcccgga caactcttga ttttgctggg ggagctgcaa attctctacc tcgagactgg 1740
 agagcttctt caaggctgaa gcttgccgct cagtgaagtt ttccagcgcc aaggacagaa 1800
 catcgcggcg gttgaccaga cggaaaaggc ttctgcatca tcgttagccc tgatacagtt 1860
 cgaaatgtct ccagggaag cgcggcaca agcatacata ccgctcagca ggggatgttc 1920
 ctttcagggt aacagccttg aggatagggt ctgtaatgag cacggtgctg accgcttttt 1980
 tcctcacggt atacgtagct ctgcgaaaag aggagctcgc gttctgcagc ggcaagctcc 2040

tcgacattat ttgtggagat aactttctagt tctaggaccg tcaataaacc aaggatgtat 2100
 cacaaaagaa cataccga 2118

<210> 3549
 <211> 2152
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3549

cccttgatga cggctttggc gccattcttg ccatcaattg acaagccata aatcaccggc 60
 ctgccaaacca agacaccctt ggctcccaga catagagcct tgataatgtc ggcacctgtt 120
 cgaatcccag aatcgaagag tacagtcaac ttatctccga ccggtcaac tatctccgga 180
 agcacctcca acgacgcaat agctccatca acttgacgac ctgcgcccag ttagcatgca 240
 gcgaagccat ggggaaaagg aaatatgaag agagattgag tgccatacct ccgtggttgg 300
 aaactacgat accatcacag ccagcttcaa gcgcaagctt cgcattctcc acatgttggg 360
 tgcccttgag cacgagcgga ccattcccagt gtttccgcaa gaaggaaacc tcgtcccaga 420
 catgaggcgt agtggataga accttgctga tccatgcctt agatgctcca acgatatcgt 480
 cttcgacttt tgaaccgctt tccttttcga acttggcgcg gaatactgga tctgagaagc 540
 cgacctgggt gccgattccg cggatgaacg ggatgtaagc attatcgagg tctgccggcc 600
 tccaggacag agaccaggtg tctagtgtga ccaccaggac agaatatccg ttttcttttg 660
 cccgtttcac cagtgaagg gtgatatcgt cgtcgccggg ccaatagagc tgaaaccacc 720
 tcttgccgtc tccgtcgcg ttcgcaactt cttcaataga gctggtgctc gcagtgttga 780
 gagtatacgg tacaccggtc tcagcgcata cctcgcccaa acctgtctcc ttgtccgggt 840
 ggaatagccc ttggacaccc acaggcgcca taataagggg cgtcgggtaa tcttgcccaa 900
 agagatttac actgatgtcc tgcttatcca tctacagaga agcaaaactta ttaaataatt 960
 cagaggtagg acaagagaca ggggcatcac caaccttctt cagcatcttg ggaattctgt 1020
 aaatgccggg gacatcagtc gttccatgtc ctacgtagac ccaacagcga aggaatcagc 1080
 ttacagcttc cattggcgaa atgccagacg attactgtcc atcgtagcct tctctccagc 1140
 tcttccggcg acataattat acgcatgtc acttaaagcc tttcgggcct gctcctcgag 1200
 taaacgggcg tcggtgtga catttggtt caggcccatc aaggcgctt gcccgtaa 1260

ctcttgctgg tactctccgt agttctgtga catcttgaaa gcaacgtgta gaacgagata 1320
 tgtctggatg agatcgtatg agggttaagg tacacagagc gaaccccgat gtttggcctt 1380
 actccacttc ctgctagaca cgtgaggggg agcctgctgc tactagtatg taagattgac 1440
 tgattttcct gccgaggtat gcagctgagt gtcagactca tactctaaat tctcatgatg 1500
 atttcccaaa atattttctt atttttatct tacctatcaa atagtagaat ctgacaaaagt 1560
 aattgattaa ctagaaaaag agctgttgat atatgccaaa tcgtgaaaac attcctaaag 1620
 cgtctaatat atagtacctc gtggcctggg gcttggtgtc agtgcgatcg gcgaaaatat 1680
 actctgtgca tgcttctgtg aactcgccca gcatgaagct atcaacgcat ccagtggctt 1740
 tatgcgagtt catggagtga tcagacgcca actctcgggtg gtctttgaga ggtatgaggc 1800
 ctgatgggtc ttcaaaaaggc agaccataca ccgacttagt gctctatttg ctctcagtaa 1860
 gggagcgaat caagaatctc acattgcaac aaacgatcaa aatattcgaa tctgagctag 1920
 tcggctttca gatataatct gtgaaacctc gtactctaca tcggacttac attcgtacta 1980
 ttctctctaa tcattcctga gagggctctgc acaataaacc tcggtaattt acatgtattg 2040
 aaaagacatc ctaaaagggtg cttcactaaa tgtgggtcaaa gcctccatgg aatgggggtg 2100
 ggactgcccc agaatatgct ctttctcaaa gacttgatac acaagcgata tg 2152

<210> 3550
 <211> 904
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3550

taagcgctgg ctaagacttc tgaatcgctc aagaccaccg gcattcttct tagaggtagc 60
 attctcggcg tgattgcgtc gatcttcacg ttcttttgac actttgcttg cctcgagagc 120
 tgccttcaag tcgtcgtctt cgcgcggttg tcgatctttg agtcttgtct caatctcttt 180
 tcggcgctgc ttctcttttt ctttctcggc cgccttcgcg tccttctctt ctttgacccg 240
 ttctttttta gactgcaaat cgtcttttcg cgatgttagc ggagccggtg gtgtctcagg 300
 gattggcggt atagggggta atgaagtaag aggagcagga tcaggatcgg aagagggctg 360
 actttctgag tctgtggtag tatgttcagg atgcgttgat agttgaggtg cggttgagagc 420
 tcgtttcaag cccgtgaaac ggtcatggtc ctcatatgct gggacctggg atgcgctgtg 480

ggcgtgggca agtgttgccg aagaggaaaa cccgttttgc ttcagagtag acgcatttac 540
 ttcaacaggc ggctccgtgt tctcctgctc ctgctccttc atcacggcct ccatggttgt 600
 ctctggttag aaaagcacat acgcacaggc tagccctggg ttgtcaccaa agaagttgcg 660
 tacatagttc ttatccaccg gctctaccat ttcattcatcg aaaagcagcc aacctctatc 720
 ctgggtcttg atgatcgaaa cgtagtgctc atggtaagga ccaccgccga tgtgtacgac 780
 caccgcatat aactcgtaaa gacgatcggg atcctcagca tcattcagtcg tgttgaagag 840
 acgaaggtgg taggggtaga caactctatg aaagagtttc tgtagtcgtt gcaggtattc 900
 ggta 904

<210> 3551
 <211> 2035
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3551

ttatggtgta aggtgtgtct taagaaatct ttataagaag tcgagagggg ggggattggg 60
 tttgaaaagg gtgtgcgccc tcggaggacc aaggaaattg tttttgtggt acgggctttt 120
 ccacgcaaag aggagagggg atgtattttc ttggcccacc aattagggtc cccggccggg 180
 agtccccctt cttgcaaagg atggcggttg gtcctcaaagg gccaaagacg gagttaaaaa 240
 cactcagtgt cccatggctt ttggaaaagt gtttttagcac aacacccttt tcaaggttcc 300
 cacaattagg ggtatacaaa ttaaagggtc ctaatggtgg ggtaaacaac atctgaggtt 360
 ttgtaggggg gtgccctctg cgcaatcctt tacaggatgt cagtcctga gagtattctt 420
 aaaggggtgt gaaagtttat gctggcttgc aaaaaattgg ctcttctatg gcacttggcg 480
 aaggagatgc aaattcgtag aaactaatgc tgccctctct tacgagcagc aaggatatgtg 540
 ggacaaaagc cagcaactct atgaaaatgc ccagatcaaa gtcggttccg gcgccatgcc 600
 tttctcaciaa ggccaatatt acctatggga ggatcattgg ctcatctgtg ctcaagaagct 660
 acagcaatgg gatattctca gcgactttgc taaacatgag aatctgaatg atctcctcct 720
 agaagctgct tggcgaaaca tagaaaactg gcagagttag aataaccgag aacagctcga 780
 gtctcttggt aagtctgtct ccgacgcccc gacccaaga cgaactttct tccaggcggtt 840
 tatggctctt ttgcagttcc acaacaagaa agagaacatc caggagttca atgggtgttg 900

cgatgagtca attcagctgt cgatccgcaa gtggctgcaa ctgccgaaga acataacaaa 960
 tgcccatatc cccattctcc agcacttcca actcttggtt gagctgcatg acgagagcca 1020
 catctgttcc agcctctcac agaccaatga gcgtaacctt gacaccaagt ctgcggagtt 1080
 gaagctatta ctcggaacct ggcgagaccg tctccccaat ttgtgggatg atattaatgc 1140
 ttggcaggac ctggttacgt ggcgacagca tatctttcaa ctcatcaacg cgacgtacct 1200
 tggcctgcta cctccccaga ctaacaatgt tgccagcaac tcctatgcct accgtgggta 1260
 ccatgaaaca gcctggatca tcaatcgctt tgcccatgtc tcccgcaaac accaaatgcc 1320
 cgatgtttgt attgcccagc tcagccgcat atacacgctt ccaaacatcg aaatccaaga 1380
 ggcgttcttg aagttgcgtg aacaagccaa atgccactac cagaatccca aggaactcaa 1440
 tagtggctctg gatgtgatca acaacacgaa cctcaactac ttcggtgctg agcaaaaggc 1500
 cgaattttac acgctcaagg gcatgttctt cgcaaagttg aaccatgtca acgaggccaa 1560
 tgaagcattt ggtgttgctc tttattaega tttgaggttg gctaaagcgt ggtctgaatg 1620
 gggtcagtac agcgaccaga gattcaagaa cgatcccagc gattatgagc tcgccagcaa 1680
 cgctgtcagc tgttacctgg aggetgctgg cctttacaag aattctaagt ccagaaagct 1740
 actcagtcgg attcttttgt tgcttagctt ggataatgat gaggagagcag tcgcaactgc 1800
 cttcgagaac ttcaaaggcg acacacctgt ttggtattgg atcaccttta tcctcagct 1860
 acttacaagc ctatcccacc gtgaggecgc cctgtgcaaa gctgttttgg tcaagactgc 1920
 gaagctgtac cctcaggctc tgtttttctt gctgcgtacc aacagtgaag atatgcttaa 1980
 tatcaagaaa cagcatgacc agaagcaaga gaagctagca cgagcccggg ggcgt 2035

<210> 3552
 <211> 3157
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3552

caccaagtgt atatcgaaca tagcgggtgct ggtgttgcca atcgtcaata actagtagct 60
 cagaaaaaag tcaataccca gtgttgagcg cacagtccta tcaggtatag cgcatagtac 120
 agttggcagc ttcgtgtctg tcatagaacg ccaatttacg tcgctaagac gcctatgatg 180
 ttggtgcta gtggcaaccg tccctcatgt gcttcaggcg ggaaggaggt accaaagaag 240

ctgggtagta tctgggccgt tgggaaccag atcttcaaag atgaaggaat gaagggtctt 300
 ttccggggcg gagcgattcg ggtcgtttgg acggcaattt cgctcagtat ctatctaagt 360
 atgtatgagg gtggtaaatt ttttctggag aagaggagga tgcgaaaggc tgaacaggat 420
 acctagatcg tagatttgaa tatagtatta gattttgttc agtagagtag cggagttttt 480
 atactttaaa acataaagggt atcagatgca atggatagta aagggtcaac agccagaaga 540
 aatagccaat gtcaaacaat catcgattga gtcgtgtcgg catccaagtc cataatcatt 600
 caatcatgtt catcgtcaag catgtacaac tgaagaaaag gtagtcatca tccaaaagtc 660
 gtgagcttct tcaaccaact tggcctcttt ggcggttcac cgtacgaacg atcacggtcg 720
 tacctcatcc ctctgtctcg ctcataatcc ccactcgagc tcgtcttccc atgttccctc 780
 tegcgttccc ttccgcccgc cctcgccctca cgccctctgg cccgtatctc ttctatttcc 840
 tggtcagtca ggccaggata cttgcttctg cgccctcgact gcttctctca ctcccagcgc 900
 gcctcttcat ctgacgacat ggtgtggcct ggtattggct cgtccggacc tggcggcatg 960
 tcgagcacgg tgggcacaat gggaggcggc tcgggcgggt catcggcttg cgagtctacc 1020
 caagaggaag tcttgtcttt gcgtgcgcgc agcggcattg gggttggttt tgtgggatca 1080
 gctgcgcggg attttcggcg gctgcggctg gatctgtcgg cttcacgac gcggtcacgg 1140
 tcatctttgt accgatggat aaaccggatt cgctcacgtt cgccctcggg ctctgtggcta 1200
 tcgaggtaga aatctcttgg atccctatcg tcaacgcggg aacggtgccg tcgctgcctt 1260
 tcgtagccgt aaccggggta atcgtgcac tctgttccc gctctcgctc ctgctggcgt 1320
 ctgcgttctc gtcgttccgc tgctaagcga gcttcttctt cccgtgcttc ttgttcttcc 1380
 ctacgaatgc gtcctcccgc agcggctctt cgtgcgcgcc tctctcgcg gcgcccgtct 1440
 tcttcttccc gaagctgcgc ttcttgttct tcgcgctcgc gggctcgctt ttctcgacga 1500
 gctcgttctt ctcttcgacg tgcccgtctc tctcgcctt cgcgacgctc agcctcacgt 1560
 agctcgtcag ctgcagcctg cggagcctgg cgtgacgcac gccgtgctct gcgtgcagtt 1620
 cgtcgagcct ccgcatectc gacctcggtg tcaggaaatg cgcgcacgac agcagggtcg 1680
 gggccaaggc caaatccctc gccgtccgag gctgggcgcg tagagcgttt ccgtcgttca 1740
 tcgcgccggc gtcgagcttc gtcacgttcc gtctcagttg cgtatctgct gtcgtcatca 1800
 cggcgggacg gagacttgcg acgctctggg gccggagggt ctgccttggt gcttcgctcg 1860

aaagacccaa gcaagcccat taaaccggta ggctctggtc tcttgggcac ggtgcttgat 1920
 cgcttcacac gacgttctct ttctcttgat tgtgaagctt ttacaaacgc gatgtcatcc 1980
 gggccggaga atacttctgg gcctctttca tctcgcgaa gctcttcggg gttagatctc 2040
 gactagacga tgtcagaggg gcgatattat tgaaataggt gatcttaccg gtcgcgctga 2100
 gtctcgcca gatcgctgg agccagaatg ccttgagcct tcttcgagg gttggtcgac 2160
 gtcttctcta ttaccacga ctaaattctc ctcgtaagg gcgtatgggt cgagagcacc 2220
 taaggttatt agaaccctgc cattatgata aaaaggttgt acgtacgaga ctttctccgc 2280
 tccctatgcc ttcatgctg ggaccttgat tcttaacgc ccatcatctt cgccacttta 2340
 tccggcgcaa catcatccag atgccgctc gcactatctt cgaccgactg ttgttttagat 2400
 gaccgcttgg cagcgtgagc agcagacttt ctggcagaat tgggtcgaga aggctgtgga 2460
 ggtgtgcaa gtatgaagtt tgagaacgcc atgccgcgac tagccctaac ttctcgccgt 2520
 ctgtccttgt cggatgccga agatctctct gcttcgttct cagattccct cgcccttgac 2580
 tgcttactcg acttagacct cacaatggct ggcgtgctt ccttcttgct gggcctggca 2640
 tcccttgtct gtgacttctt aggaggcgtg gcaccccaga agcccgaagt ggtagcaggt 2700
 gtgcgtcta cagagtagc ttcttctctg acaggcttct cgggtgtctt agggttacca 2760
 tcgtccggtt ctaaggcgcc gctagccatc atatcttcag cggtagagagg ttcttggtggc 2820
 ggcactggct ttttcgagct ctttttgctc ttcttgcca tcttctcagg ctttgagca 2880
 ggcgtggtt cagtctctac gtctagggcc ttctcacctc cttcgggtga tgcacaggt 2940
 tctgctggag ttccagctc tggctctggc ttgggtctg gctcagggtc cgcttcgggc 3000
 atgggcttca actcaggtac agccttcttt aacttcttta acttcttctt ttccgacttt 3060
 gtgagtgtaa tcggttctga ctccggctcc ggcgcaacct ctggttctgg ttctgctctg 3120
 cccagggccg gttcagcttc agctccagct tctggcc 3157

<210> 3553
 <211> 3403
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3553

aacttccccg agtccattac tcagcctgaa attctccaag agatcagcca ggccaacaat 60

gacccctcag tacacggcat cctcgctccag ttaccccttc cccagcacct ttccgagcat 120
gcggtcacct ccgctgtagc cgacgagaag gatgtcgatg gtttcggagc gattaatatt 180
ggagagctcg ccaagcgtgg tggtcgcccc ctttttgttc cttgcacacc gaaggccgta 240
atggctcctc tcaaggccag tgggtgcgac ccagcgggca aagaggcagt tgtccttggc 300
cgcagcgaca ttgttggaag ccctgttagc taccttctca agaatgcaga cgcgaccgtc 360
actgtgtgcc attcgaagac ccccgatatt gctagcgtg taaaaaaggc ggatattgtt 420
gtcggggcga ttggtaaagc agagttcgtc aagggcgact ggatcaagcc aggcgccgtc 480
gttatcgacg ttggtatcaa ctacaagcct gattccacga agaagtcagg acagcgtttg 540
gtcggtgacg tcgagtacga gtcggcctcc caagtggctt caaagatcac gcctgtcccc 600
gggtggtgtt ggcccatgac agtagctatg cttctggaga atgttggtgc ttcggccaaa 660
gcatactttg agaaacagaa ggagcgacat atcacccgc tcccgtcaa gctggccacc 720
ccggttcctt cagacatcgc catctccgc tcgcagtacc ctaagcctat tactcaagtc 780
gcgtccgaga tcggtatcgc atctcacgaa cttgagccgt acggtcatac taaggccaaa 840
gtgagccttg aagtacttaa tcgtttgagc caccgccgta atggccgcta catectggtc 900
tgtggtatca ctcccactcc tctaggagag ggcaagtcga caactacgtt gggctctcagc 960
caggccctag gtgcacactt gaaccgtgtc gcttttgcca acgtccgcca gccgagccag 1020
ggctctacgt tcggtatcaa aggtggagcc gccggtggag gctacagtca ggctattccc 1080
atggatgagt tcaatctgca tttgactggg gatattcacg ccatcactgc cgctaacaac 1140
ctccttgccg ctgcaatcga gacacgtatg ttccacgagg ctaccagaa ggacgccgcg 1200
ctgtacaagc gtctcgctcc agagaagaag ggcaagcgcg agttcaagcc tatcatgttc 1260
aagcggctaa agaagctggg aatcaacaag accgaccca acgagcttac tgaagaagaa 1320
atcaatcggg ttgcccgcct tgacattgac ctttcgacca tcacttggcg ccgtgttctg 1380
gacgtcaacg atcgacacct tcgcggaatc accgttgga aggcgccaac ggagaaggga 1440
ctaacacgtg aaactgggtt tgacatctcg gttgccagtg aatgtatggc aattctggcc 1500
ctgagcagtg atctcgcaga tatgcgggag agacttggtc gtatggttgt tgctacctcg 1560
aaacggggag agccggtcac ttgcgacgat atcggtgctg ggggacgctt gcggcgctga 1620
tgaaggacgc gatcaagccc aacttgatgc agagtttgga aggtacgcct gttctagttc 1680

acgccggtcc cttcgccaac atcagtatcg gagccagttc ggtccttgcg gaccgggtag 1740
 cactgaagct ggcgggtacc gagcccgagg aggaccatga agccaagact ggtttcgttg 1800
 ttacagaggc tggtttcgac ttcaccatgg gcggagagcg cttcttcaac attaagtgtc 1860
 ggtcgtctgg tctttctcct gacactgtag tcattgttgc tactgtgcgt gccctgaaag 1920
 ttcacggtgg tggtcctgag atcagccctg gagctccact acacgaggtc taccgcacag 1980
 agaacaccga gattctccgc aagggtgtg ttaaccttaa gaaacacatt gaaaatgccc 2040
 ggcagtacgg agtccccgtc gtggtagcta tcaaccgctt cgagaccgac accgaggcgg 2100
 agatcgctat cattcgcgag gaggccatct cggcggtgc ggaggacgca gtctccgcca 2160
 accactgggc cgagggcgga gccggcgccg tcgacctggc caaggctgtc atcattgcta 2220
 gctccaagcc aaaggacttt aagctgctct acgatctcaa cggcagtatc caggagcgca 2280
 ttgagcggat cggtaaggcc atgtacggtg cggagaaggt ggagttcagc gaactcgctc 2340
 agaagaaggt cgacacatac actgcccag gcttctctaa cctcccgatc tgtatcgcca 2400
 aaacacagta ctctctcagt cacgacccca gcgctgaagg gcgctccgac tgggtttacc 2460
 gttcccatcc gcgatgtacg attggtgtg ggcggtggat acctgtaagt cctgtcccta 2520
 agttttgtca catagtttcg actcaccgat cattactagg tacgcgctcg cagcggacat 2580
 ccagacgatc cccgggtgc cgaccgctcc tgggtacctg aacgtggaca ttgacccccga 2640
 gaccggggag atcgacgggc tcttctagaa ctactattga tggaattctc ggcgtgatta 2700
 tagttggttt tcacgggttt acgacgggta tggtagcatt gttgtgaggt tcatttcaac 2760
 ttatcgaacc tatcgagttg caaaaacatc ggggtagtta catcttcaac aggatcggaa 2820
 catgaatatg cagaataata attgtcttct taatttacgg tttgtctggt ctgcgggtgg 2880
 tgcgatgcga atatcaagta ctgtatagag taggtacact atagatcggg gccccgcaga 2940
 aggcgaccaa ctccccccct ccggctagcc acgcaaagga aatgtccgat gatcgcaagt 3000
 tcgggtctaca gccggcgga aatttcttgg tgccgcggga aaacggtcga gtggcctcct 3060
 accccaggag gagtaaaacg tgaatatcgt ctcaaacgt gacggagacc gtgcgacaga 3120
 ctgacgggaa atctctcgaa actctgatgg tgttgcgctg caatggcacc gtagacggag 3180
 aaatatcgcc tccaaatccg ccatctgcac tccgatgaa ccccgccaa agtttgaggt 3240
 ctggaaagtc gcctgcgcaa cgtcatcaac cttataccca tctaactctc gttcctggcc 3300

atcttctgat tctccgtacc cctgtaagct ccatttatca atcaggaatc agacagatat 3360
 caagtgtagt cccttattct cattattgat gtgtgttata caa 3403

<210> 3554
 <211> 1089
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3554

ccttgactct ccgactttcc attetaagaa gggccctcat tcggtaaaca gaaccgagag 60
 atcagtgact ctttgacagg cgagcctcca aaaactgaca agcagaccgt cttttccgac 120
 ctgatccaag gcgacctccc tgettcggaa aaggcagatc gccgattgca agacgaagcc 180
 cagctcgtga ttggtgcagg tctcgcgacg acaggatggg ccttgactgt agggacgttc 240
 tacctgctca gtaaccccaa agtgctagct cgtctgcgac gcgaactaga cgaagcgatc 300
 ccagcgcgca atccagagaa cccagcggg gccctcgaat gggccgagct tgagaaactc 360
 ccgtacctaa caggtgttat taaggaggca gtccggctgt cacattcgac cacttctcgc 420
 aatgtacgcc gtctgccgaa acctattacg tataaggact gtgttatacc cccgcgcacg 480
 cccgtttcta tgacgattcc atttttgcat ctcgatgaag acatctacc tgagccgaaa 540
 tcgttcatac cagagagggt ggtgggataa tcctaaaacg acgaatggcg cccctcttga 600
 gcggtacttc gtcggtttcg ggaaggggac caggtcgtgt ctggggctca agtatgccct 660
 ccatatccaa gtctagtggg gtttctgtgc taaccaaggg aatgcagtct cgcttggtgc 720
 gagctatacc tcgttttcgc ggcttcttc cggttcttcg actttgagtt gtacgaaaca 780
 gatttctctg acatcgagct ccagcatgat ttcttctac cattcccaa atgggattca 840
 aagggcgtcc gagtgtttgt caaggagcgg agtgcttgaa ggagcaaata cattctcatg 900
 aatatctata ctactctaaa tcaacgtcaa catcgtcgtg aaaaatcaca gtgccccaat 960
 tcggccgatt gaacctcttc cccttgggct tcgccaatcc atccatatct ttcattctct 1020
 gctcatcaag cagcaaattc tggctgagat tttctttat acgcaccggg ttcgtgcttt 1080
 tcgagataa 1089

<210> 3555
 <211> 1108
 <212> DNA

<213> Aspergillus nidulans

<400> 3555

ctaaagacct taatagatgt aaagagctta ttaataaatt taaaaataca caaaaaacag 60
aaacctatat taataaggat attatTTTTa ataaggggca tatattatta tttatagtta 120
acagatattg cagtcaccat attatattgt tgcctaattc tgcttaatgt taccgccttc 180
gagcggggta atgatctttt agctcctggg ggcctaacca ccaacaagaa gaacacatca 240
tgagatcgga atcataaaat catattgcgt tttacacaag cctactagat actgggaagg 300
ataatactat aataaaactat atacatattt atttaatgta tataatattt atttctaggc 360
aagataactg gtcaggagta cagtaaatat tcatactaata taaataatct aatatagctg 420
acttatcaaa gccttctggc aaaagtttgg ggaggaagag aataatctct tattgatatt 480
aggcgggggag cttttgactg cgctggctga ctaagatatt acatagcttt atcaagcctc 540
ccagaatcgc agcagcaaca tacaatgaga tatatatata ttatattcag cctaagtact 600
atgcttagga tagggggggg gtaagagcaa ggcacataac aataatccta tatttttagta 660
gtttttatat tatctactta attatTTTTc tttaatatat tagttctttt ttctattaat 720
gtatattatc tatctaggca gcagtagcta agattttcta gttatttaat ttatatttcc 780
aagtaacctt tttaaaaata ctttataaat ttactaacta tttatcctgc tattataaaa 840
tacaagtaag aataaaaaca catatattct taatcttaat attgacctag ggatctatta 900
gtaataatag attgataata gtaattatta ttagataatt tatgtataag gccaggattc 960
ctgttatagc ttagctagtt tttattaaat aggttttagaa ttttctatta ttttaatttaa 1020
tttataatct taataggtct tcatagtaag catagaagtt taagagacta attaaaacct 1080
acctggtagg gattaaatac ctttttat 1108

<210> 3556

<211> 567

<212> DNA

<213> Aspergillus nidulans

<223> unsure at all n locations

<400> 3556

aaagaaatta tcagctatca attgttatca aggcttatat agcaaaagtg gaaaccacat 60
tacgtaggct cgatggaaga aggtcaaag ctgatgcaag tgtaaccgct gttcaactaa 120

aggccctaataaacatcgacaataaccagacgcctgtgcccaaccaaaccaccaagtcgc 180
 aagaacgcccagacaagagagctagagtagcaaaaaagcgaagcatatcgaagcagcac 240
 gaaagcagcacaactaggctatatagtaataagtaactttgggccaaagagtatgcaatg 300
 caatgtcatctcacacacggacaatagcgtgatagggaagaacgagacatgacatct 360
 gacgggctaattggttttaaaagagtaggtaacaagaagatggcagagtatcgaagtaccc 420
 aaagaaaaaa gtgtcagcactcgggtgaaaattcagatcatgcttggggc tttaacggac 480
 aggacttinctgtactgccgattccggccactgggcttgcgacgcccttggactcgccagt 540
 cactcggcgggaactagaccgaacctt 567

<210> 3557
 <211> 2293
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3557

aaggtaagccctggaactcgagatgttcccttacaactggaaaggagaaaataggagtta 60
 ttgggcacgctaactactagtgaatagcacgcgaacaccccgagaacaa cccgtccatt 120
 cccttcaagttctccgaaca gaaccaacagctcatcgaggaaatcatcgc ccggtacccc 180
 cctcaatacaagaaggcagcgcgtcatgcctttgctggatctcggccagcgtcaacacggc 240
 ttcacaagcatcagcgtcatgaatgaggctgctcgcatcc ttgagatgcc cccgatgcgc 300
 gtctacgaagtgcgaaccttctacacaatgtacaaccgtgagccgggttggtg caaatacttt 360
 gttcagctttgcacgacggtaacgtgtatc atttcgcatcgtaaaaatgtgtgatcatga 420
 ctgacaaatcctcaagacacatgcccaactcggcggctgcggaagcgaca agatcgtcaa 480
 ggccatcaca gaacacctcggtatcaccccaggccacaca accgaagatg gcctgttcac 540
 attcatcgaggttgaatgtctcgggtgctcgtcaacgctcctatggtcc agatcaacga 600
 cgactactacgaagacctga ccccgagtc catcaaggagcttctcactgcgtcaaaga 660
 atcccgtaaccgccacctccgccagggttaagatccctgctccaggccctctatccggcag 720
 aatcagctgcgagaacagcgtcgggtctcacgaatttgcaaaaccccggtgtgggatcccca 780
 gacgatgatgaggaaggacgtgcccctgga cggggaggcgcagcaggcgc aataaacaca 840
 taaagagcga gaagaaagaa tatactagtttccttggttggttctttttt tccgttccgc 900

gcgtttcccc ttcattccga gctggttgac ggacaaggcc atcggttgct ggttatgtat 960
 gtatagtatg ttgtttctgg tcttgcatg agggaccagg agcttcgata gaagggttag 1020
 tacccaatga actcttacct gtcattgctca tattcgatct agctacagtc tgctattccc 1080
 agtttttcat gtacatcagg atgaggatgc gaaacatcct aatccataca cagtcccacc 1140
 aatcaacctt gcactccaag agagggcgat aaaaatcttc gtatcctgac agacctggag 1200
 ctccaagacc tggaaaagaa gctcagatcg ctttttcaac aaccatagcc ggcccctgac 1260
 aagtcattgt ctcatcctcg gccgcctcct cagcatccaa caaagtcgcc cgcccacccc 1320
 gttcaacaag aactttgttc ccgcgcgcgt cctggaaaac attcacgtcg atcgatcatct 1380
 tcgccagcag atggtaaata tgcacatgac tcgtctgccc ataccgccta ctccggccaa 1440
 cagcctgaat cataacagag tcgtagtcac actgcgtttc ggcaagaaac ggtgaaagaa 1500
 aaataacgtg gtttgccgac tgcaggttca atcctgccgc catctcatta cccagattca 1560
 aaatgaggac tttggtatca ccgaatccct ctttttgaa cttctcgatt ttcgagcttg 1620
 ttttctggtc tgttggtgtg atgattatgt gttttattcc tgcagaggat agggccattg 1680
 aggcgaccgt catgagggtcc gggaattgga cgaagaggag ggcgcgctct tcgacgggga 1740
 atttggtgat gatgttgatc agcgctcga gctttgttcc gccgtgtttg gagcttcggt 1800
 caatatcccc gttactatcc ccacgctgg acatggcagt tggagttgaa gtagtgctgc 1860
 atccaagcgt catagcgtta atgatattaa aatttttgcc agaccgcga catccctcga 1920
 ccacgcattc ctcccttctca agtgttttct ggggtgcagtc tgaatttgaa cagagggcat 1980
 gaccgcacga tccgagaatg ttcagtttg ataaaacgcc cggctgggtt tggcaattgt 2040
 cacacgcagg gatggcctga ggattcgggt tcgtttggat ctttcggacg gctgtgagga 2100
 agcgaagggc tcgtttgcga tggaccatt cgacgaccag tttgcggagc acgcctgtga 2160
 cgtctcgag ctctgagtc aattctcgag gttctgtggg tttggtaggg aggagaggct 2220
 cgctcttgtt ctttttattc tcgtcttttc gcgtgagagt aggcttagcc ttcgacttct 2280
 gcttgtgtct ggg 2293

<210> 3558
 <211> 6542
 <212> DNA
 <213> *Aspergillus nidulans*

<400>

3558

cggaattttg tttccaactt ggctaccagt aaaagaccaa ggacaagtcc tgggatcggc 60
cgcttttcat ccacagcacg aatcaaagct tgcagaatac tcatccctaa cttcctaatt 120
tcaggcccac ctctgtaata actctttctg gaagacatcg atcatggctg cagtggcgct 180
gctgaaatac ggaaccagca gtctacacga cttagcttgg ccagtcagca ttccctgttt 240
aagaagcaag catatggaga aaacctccc gccagtacct ttggatttag agtattgtac 300
gataacaagc cggctcaacg aagctcaatc tctactaccg tatgctgctc cggccacaat 360
tgcccagaaa taagggtgaa cacggctata tgcacacctg gcttctttcg aaagctgaat 420
tatgaagatc tgaaataatt gaaacggatc gacgggagag atgagctttg ctcagaacta 480
accggtgctt cattagttat cctggattgt atcacagtac tgaactggac caaccacctc 540
gcctcaagta caatcacgcc cttcaggctc tgggtatata ttttatccta tgggtggcag 600
gttattccca aagtactctg caaacacagg atcaaaaaat tctctgtctg atccagctac 660
gtatcgatgc catggttctc caactatggg agtcaatagt cactgtcgat cggcaatgta 720
agctctgttg aatattcagg catcagactt attaagtatt taagagctct aatttccggt 780
attagcttgc cacattcaat agagaatacg tcttctggcc tacatatgaa gtacagcata 840
tccacaaaagt gtttctcggc acagtagtca caaagacatt gccattggc tatcaaacag 900
tggctcgcgt taaatgtagc cagagcccga gagtgcttta gtgctgctcg acaccttgta 960
tgcgattaca gaatatctta cgggtgggtg atcatacgtg tacgtaccgt attcgtagca 1020
actgatccct cgatttcggc cggttctacg ctcgaccgg aagctctcat gttcatcaca 1080
gcttcaaaaa cattactaga cagaatgctt catccatcac tatttcagca ctgattaacc 1140
tgacatggtg ctctgctgc ggtccaactg accccaagtt caatgtcggg aggggtgagtt 1200
gtctgggagc ttcagcctct tatagtaata aaaaacgagc accgatgcgt gaccaagacc 1260
ctcgacagcc tcctctgttt cgagagccca atctcaagga cttcttcttc agcctcctgg 1320
tcagcaggat atgaagctga ggatcaaac tctcgggt ggctatcatt cagagcctca 1380
cgaggtgatg attgtggctt tctaggtgaa gtgagatac cgtattgtgg aagctctgtt 1440
gccctgcaga aacagcggga atcgcggtcg gctggtcaac gaaggcgag ggaagaaatc 1500
accgtagctg tatcaaatgt cagcagctag gatgaccgag gtcaggtgcg ttgccggggc 1560

aactgaaat ggcgggcac ttgcatacag atccaagtc ctctccttct gccacgcctc 1620
 ttgccacacc ctacttcgca taacttgcaa ggactaggct gcttgtgcat tccataacta 1680
 ccactaaaga accgccagtc tcatacatga ccatcacttc tttttgttct attccagggc 1740
 gtgattatag ccctcgagaa acatgatcgc atcatatctg ctgatcgatg ttctgggggt 1800
 ctgctgtgcc tgggggagaag ctcttcgaa tatccaaggt gaaacagtta ctcacgggtgc 1860
 aggtggtcgc gtccttattt tgcaagacgg ctggcggttcg gcgttacgtg tgatacaggc 1920
 acggggtaac ctttttcgtt aaacatccta tatttacgc ttgttatctt cgttctagat 1980
 ggagcgcgag atgccaaata accgatcgca ccctaactat gacacactgg cgcgttctcg 2040
 ccgctgtcgc ggcgatgaat tgggggtggtt tcttcagtat gactcttctt gataccctgc 2100
 aaacgcatac tcaaaccagt ttctctagtt tatgacatcc cagcatcact gtcgacgccg 2160
 ttatcgaagc acctctcgct ttcggaccat cagttcgcat tcttagtctc agtcctctac 2220
 actgtctacg caattcccaa caccgtcctt ccctttctca caggcccggc agtgcaacgg 2280
 attcggagag cgagcgggtgc tcttgactat tacatcaagc ataatactcg gacaactgct 2340
 atttgctgta gcagtccaca ctaggctcga gttaggaatg attgctggcc gcgtcctgat 2400
 agggattgga ggagaggtgg taggtgtcct cggatgcgaa atcatcacgc ggtgggtcca 2460
 gtgattgccc tcatccttgg gagaccgccg tacgctgcta acagctttcc gcgcttgcta 2520
 cagagataaa agtctttccc tggcgctcgc aattaatcta ggtgcgggaa gactaggcag 2580
 cgtcgccaac acagctatta tccccgatt gatcgagctg tacgatgtga catcagcaac 2640
 ctggatagca acagcgtctt cccttggtgg cgtaactcta ggcgccagct atctcctaag 2700
 tatcacgaaa cgcagttacg attactctca ggteggagat gagaataacc ccaaattcat 2760
 cgttccgcta tcgttccgtc aataccctc cagttactgg ctactggccc tgatctgctt 2820
 cctgagctac ggctgcctga acacgttcac caattccgca caacgctttc tagccacgcg 2880
 ttactaccac ggagatcagc gcgcagctgg atcagctttg aggtacgtac agtaacggtc 2940
 tcctgacaga agcacagccg caaattcaca agccttctac tagcatcctt ttcgttctct 3000
 cgggctccct cgtcccttcg tttggcttcc tgctcgattg cttctcgtcc aaaaactaca 3060
 cacgcgcttt gatcactagc aacatattcc tactttccgc acatgcaatt ttcttaaccg 3120
 gtgtgagcac cagcccaacc ctccgctat gtctcctcgg cacggccgac gccctattta 3180

gcgtctcctt ctgggccagc gtcgtgcgca gccttctccc cttgtctctt cccaccgaaa 3240
 cgcaccccca aaacacgcct cttctaaaga ctgaggacgg gcgcacagag caggtctatg 3300
 tatcaaatac ggtctcagac aattccgagt cggccagaga aggttttgcg gatgaaagaa 3360
 gggcaggcgg gcccgccgtg cgtcgcagtg atgcagtacg tacactgggc ctaggaataa 3420
 tgtctagcat gctaaatacc agcacggcgg ttattcctgt tgccctggcg gtgatggaga 3480
 atctagctgg gctattggga ctagaggctg tgtttttgac gctagcgctg gcgggatttc 3540
 tggcgactgt gagattggcg tggatctgag accatgtctg catcgtgcta aacgatcttt 3600
 gtcctaatac ctacagatgc tatagattta tgaagatttg cagttcggaa cagtgatgat 3660
 gatgcatggg tgagtatatg gtgtctggcc atctaacca ccattcttgg taatctggca 3720
 gacttcgaaa gggtctagag tggctctgtt tgctttgagg ttttgatggg tctgatgctc 3780
 caaggttctt gtataatttc ctatttgccg cttttcctcc acgcaaactt agcaatgaag 3840
 tcttcgtaaa ctcgagtaac ccatattttc tgaccgcgaa gcctttctac cgtgattagc 3900
 atcaagtaga ctctagaata ttccctcaca gtgttcctt tgccgtcgtc ccgtactcaa 3960
 taagtaatcc cagcacatct tcccccgcc aagccgtgac atagtagagc gcattcctcc 4020
 catcaagatc caggtgccgg tatcagcgct ctcttaagc agcaatctta caacgatcct 4080
 gtgcctcttc gctgcagcat attgaagcgc cgttgcgagt aattgctgcg cctctggcga 4140
 ccgctgagaa tctgagaacc tcacgatcga taagcctgaa tcagctgcat aataccaacg 4200
 aattgggagg ttcaggaaaa gtataagccg ggagtaatac tgagtttgac gggcttcaag 4260
 agcatatgtt cagaccctgg ggcagggcaa aagtaagtgt gagtagcgga agagaactgg 4320
 gtttgactga gatagaagag aaacaacgct cgtctcgtca aaagggcgag atatatcaag 4380
 ttatcgcaag taaccagtag cgggctggct cgatggagcc ggcatacgtg gaatgatatc 4440
 agtcctatg gcgttgagcc cgtatgtgct ttccttatct gcagtgtgca agatcatcga 4500
 actcattggc agtaccttat tcttgctctg gcccttgggg ctagcgttta cctgtgcgaa 4560
 gttcaaaggt agttacaccc ctcatgatcc tggatgtgtt gtctgagtag tttgcgggct 4620
 tccaacatgc ttataatggg gtatgaacct gtttgactca ccattcgtct gcttcatata 4680
 gcaaagatct tctcttttgg ccagcttaaa gataaaaatt accttcagag cgttttgcag 4740
 caaaaccatg ttgcgagagt atcaggtaat ggggggaaag ccttcaacga ctccaacgcc 4800

tttcaatttc caacaacaag ccgagaaatt gcatgacctc ttttccagaa aagggcaacg 4860
 aagtagaacc gcttttttac attcagaacc aaatcttttc tctatcaact catgagggcc 4920
 gttggtattg gcggtgcggt gcgtttctgt gtcttccgag tccgatttat ccactttctt 4980
 caaccaaccc tttctcagaa cctgaagcag ctaagtcgtg cgagcaatta agaggggttac 5040
 cggcaatagt ctgggaacgtc ttttgtgtcc ggatcgaatg aactgtaggt cttttgctca 5100
 gtgtgcagtc cgcataacga accacaactg gttgagaacc cattggatat gaccacgtat 5160
 atgatcagag aaaaggatgc gcgtcaaggc atcactatcg gaccatgaaa gcgcattcta 5220
 ctaactactc acgcacttta ttccatactg tatcgccaac agacctctc cagaccctga 5280
 tggggtcgac gtggacacgg accactacgt accccttggt ccccgtagct tgcagcattc 5340
 agattagggc tggctgtggt gtaactgaca actcaggtcc agcgcaagtc tcccctcttc 5400
 acaccgctgt tctgcctcga tatattctcc ttacgtccct ccgttgctcc tctaactatg 5460
 cgcaagcttc cagtgcagcc gttatgcagg aaacgatcct tataaccggt gcgaccagct 5520
 cccttgcaac acgcattgtc cacctcctcc ttaccaaata ctcttctca cccaagacc 5580
 caagtctgga cgagaatggc catgaatata cactgctttt aacgtcccag aacccatcca 5640
 agatcaaact caaactccct aaacttacgt cgaacacaaa catcagcatc agaatcagga 5700
 aactcgacct gtccaacctc tcatcagtgc atgatttcgc tacagcaatc agcacagacg 5760
 tccaatctgg caagatcccc cggctaagga gcatcatttg taatgcttcc tactggaact 5820
 tacgcggcga cggagaatta acagacgacg gacacgaggg gacattccag gtcaactaca 5880
 tcgcgcaaac agccctcgtc ctccgtctct tgggggcctt taatcccggg tcaggagggg 5940
 gtattgtgct tctcacctgt gatatacacc gacactggcc cctcagaagc gtgcttggtc 6000
 gagcacgtgg cctggaaaag tatccccctg gaatcccggc agatctaaac aagctgggtg 6060
 aggttgaatc ccagtcacac cctcagtctg agcatcagtc tccagagcag attctggaag 6120
 agctacagga gaaaccaacg atcaggaaaa atgaaaagcg tggagtatat gccaaagcggc 6180
 atccagcggg acacaaactc gaagatggct ctgattatgt ggatgtatgc attgatccgc 6240
 gcttaagggc cgtactttct atttccttcc tcccttaaca ttcgtcactc tactggcagg 6300
 ggggtgtactt gcattttctt gcgtaactga atgggcagga ctgccctacc ttttccgatt 6360
 tagcaacccg gacttttttac tcaaagcttg aacatccccg ttgctaaatt ctccgtccga 6420

gctcagcgca ccttgttttc tctcttagtg aggagcagaa aaaatcctat cctgcttggg 6480
 tttatatattc ccatctccca cttattattt atctccgact aattataact catatttcta 6540
 tt 6542

<210> 3559
 <211> 2271
 <212> DNA
 <213> Aspergillus nidulans

<400> 3559

ggtaatatca gagacagaag agaaatctac cttgctttct tcctctcagt agcccacagc 60
 tgcccgcgac aatttggtct gccgcaaaga caaggcaccg cattcggatc cagcttatca 120
 accctctcca ttccgggggtt atagtcgaag gtcaattctg tgccggggtt gatttctctt 180
 aatgcgaaga acgccaaatc ataaaggtag tcatcgccgt gggtacggga gacgggaaac 240
 atacggcagt tggggttgca ggagtgggtg atgaagcggg tggcggcacc atagtctgcc 300
 ccgtcaacaa cgtaactgct ttcgtcatca acaaggaagt cgagactaaa gagataggaa 360
 ggggcgttac gcgtgttggc gattttttcg cgctggctcg ccttggaggt tgtgattact 420
 tcaccaagat atagatctat gaattggcca gcgcggatgg tatcaagcga acggaggcct 480
 gtttgcttgg ttagtagatc agtccttttt tggccaatt ttgcaatagc aggggtgcata 540
 ccaaagccac gcgctccagt gtggaaaatc tccaggcgga tagtgcgctc caactggacg 600
 acgcgattcc agcattttct ctcacacccg cacagagaat tgcattcgaa gatcatggat 660
 gtgcgcttca tgaactcagg ccgaaggacc atgaagcgcg gattgtctcg ggcacgcttg 720
 tatgcaatga tacgtttctc cgagtctct tcttgtgcaa gacactggca tctatctggt 780
 aggcagatag tctcgcagct acagccggat tggaattcct tgctgatagg tgctacgccc 840
 tctcggagct tgtactcggt gatgaactcg aagcctgtgg tagctttggc gagacgcttc 900
 tcgtccgctt tggccacagt cactgctgga cctttgatgg aggctagttt cttctggaga 960
 ttcttgcaga gcaagtctat cacggggcgt ctattcttct cagttaaaaa ggggcctggt 1020
 gtgccaatga ctaaagggac accagcgcga ttggttttcc tagcagctgg atatgcaccc 1080
 ctcatcgcg gcctttcaag agcatctgtt gggtagtatt tctccgacat acccgtaatc 1140
 tcgggagtc tgaattctgc atccgggagc cgctcggcag aatcaatctc tttctttagc 1200

tgtactgatg gagatggaat gactactctc agggctctccg gcgctgggct tggggcataa 1260
 tggcctgcgg ctgagtctgt gcctgaactt gaagctagag atggagctga tgctgggatt 1320
 tggcgtgcct gacgcgcagc accagtagca gggccggcac caactctctt aaagggccccg 1380
 gacaggctat catggccaac tgggtttcga gaggaacat tgggtggttct ggtctttgct 1440
 ttttgagggc acgcaactgc acttgcgatg gaagactctg agccggactc ggcggagtct 1500
 gcatctgact ttctcttgaa aggaattgta gaggtaattg tgtgaggaga gggagaaaaga 1560
 gtgcgggtgtg caagtgtctg ccgcccaga cttttgataa gagggtagg aatctgaaaa 1620
 cggtcagcac tgacccatcg tccagggagc acgataaacc gataagttct tgggtattgt 1680
 ggtattcaga gataaaagga agacgcgaaa ctaactccaa gctaagttaa cgtgacttac 1740
 ccgggggtgc tcctctggat cagagtctat cgtgaggtca accagcatgt cagttgccat 1800
 aagcttgata gtgggacgcc aaaaagtaaa taggagagcc aagtgaaga gagatagagg 1860
 gggtcggcga atcgaaatct ggagatcacg agcttgggaa agccagacat cacaacagag 1920
 ctcggtttct ggtgtttttt ttgtcaggac tcatgtggtt caattcattg ttaactagac 1980
 tgcattgggt tagtggatct tcaggtttta atcaagtgtt gtcacatggt ttcactacta 2040
 ttcaatatga ttaatatcta agaaattaga gactcatttt cctggcattg attaattgat 2100
 atgtaatat gacgactgac attaaatctg taaaaaaaaa ttcaaaaaaaaa tcttggcgaa 2160
 tactatgtca attcagaagc cctcaagtca gagcaacagt ttgcttaaat agaataagc 2220
 gggctgattg gaagtttgaa ccacctagaa accgcccgtt attttccttc a 2271

<210> 3560
 <211> 3790
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3560

ctgccgatat acgactcact atagggatcc tttatcttgg tatgagctct tgtttgccaa 60
 tgaagttttc agctcgtttg tactaataat tatgtgaagg atacacctac agcgacccca 120
 ggccatccct cttcaagtaa ttatgaacgc agccgtcgaa tactgttgct ctgctaactc 180
 gacaaatagg cttttctcgc cgcttgcgta aattaaacaa accccacgtc aatcgaacag 240

acatcttctt acggtcgaat ttcatacggc atgatggctg aaagcggatt gggcgtttct 300
 gttatccctt tctatttggg tgattgcagc ctgtcatcca ttcattgtga tttttaagta 360
 ttttatttca agtatgttgg gacagggttaa ttagagcact tatctctggt tcacttgtct 420
 ctcgatttga gataccagtg gcacttttgt ctcagtagct ttgactctgc cattagagca 480
 atgttggacc gcttcgcctg agcatataac aagcactcat gataagaaca gtccttttagc 540
 aagcagtgat agtaagctat ggagattgca gcattgtttg tagttaaata cgtnaaaagt 600
 tattgctgag tgatctttgt cattgttact actcggntct gggccgcca gcaattctt 660
 tttgggacag aaatcaagag ctgaacaact aagcatcaga tattacaaag ttacatctca 720
 cgaagcacac actgagtgac aagctctcac acccgaaaag ttcattgtttg gcaatgatgg 780
 cttgtcgtca tccgtgggtg aaaccatagc gggattcacg gcaggcacag caacaacact 840
 ttgtctgcac ccgctggatt tgataaagac tcgactgcaa ggtactttta gtccagccac 900
 tttggccctc aggggtacaac acgtctaata tcaggctgta cacagtcgac cgaacctcat 960
 cgtctcgagt cggcagtttc tctccgagtc atccgcgaaa tcttccacaa agagggcgga 1020
 ctcatcgcat tttaccgagg gctaacgccc aacctcatcg gcaactcctc cagctgggag 1080
 ctctactttc tattctacga caatgtgaag gagattctag ggagttggcg atcgcgctcc 1140
 aattcaaagt gctcgcagca gcgcccggag ccgctggaag cattcgatta ttttatcgct 1200
 ccgggtctgc aggtgtgtca acaacagcag ttagaaaaag cgagtcaagt aaaactaacg 1260
 gctatgtgta tggcatagga attataactt ccatacctaac caaccctatc tgggtcatca 1320
 aaaccgcgat gctcgccacc ggctccatgt cggccggcgc gtatacctcc ttcacagcag 1380
 gcgcaatgca gatacttcgc tcagaggag ttcttggtt ctaccgcgga ctggttccgt 1440
 cactcttcgg cgtcagtcac ggcgcactgc agttcatggc ttatgagaaa ctaaaatttc 1500
 atcgagcgaa cgcacattcc gggggtctgc aaagaaaaga gtcagcaat atggatttct 1560
 tcatcatttc aagcgtctca aaaatttttg ccggtcaat aacgtaccg tatcaggtgc 1620
 tccggtcgcg gctacagacg tatgatgctt atctcgcata ccggggactt caggacgcaa 1680
 ttgtaaagat ctgggttaca gagggcttgg gagggtttta taagggtctc gggccaaact 1740
 tgtttcgtgt tttgccaagc acctgggtca ctttcttgat gtatgagaat accagggcat 1800
 atctatcgaa ggtgatgtcg aacgcttgat gattgcggta tggagtcgta gcaattcgg 1860

gtgaacgtga ggcagctttc tcttgacata ctgatttata tgtaccctac catatccaat 1920
 ctcaggactc ctttggtcag catttataca tagagtatat acaattattt gcagtgatac 1980
 cgcgtagcggc acaaacacac gaaattctaa tgtcatagga acgccctgtt ctatgcaagt 2040
 cattcatcat gacgttggtc cataccggct atacattagc aagtaaaacg acaacgcacg 2100
 aactgggaaa ctgggaactg gtatcttggg aaactggaat gcaaacataa ctccaaaacc 2160
 gaaccaaggc gtcaatcaca gagatgaata tgtcttactc gtcaccgcgc ttctcaatga 2220
 agtatgggtc ctcgttatcc tcatcgctgc tggatgcgcc tgtgtatacg gaatcttcgt 2280
 agtccccacg acgggcttga tcatcagcac cgggacgccg gcttccatca gactaacgt 2340
 tcgtcttga ggacggagag attctgcggg ccttccccacg ccccttgatg cccttgttac 2400
 tattcttgta tagtcctgca aaatattccc acagtttccg gtcttgaggg ctcatgtgtt 2460
 cgccatcaat catagcggag aacttcttgg ttagggcctg gagcgtctgt gtatggaatt 2520
 tgttttgatg cgactaaacg cataaattag atcagttagc tgaccaagtc acaaaaagtt 2580
 agactgtgag ctaaccttga ggtttccaag ctgcgtgaac tgtttgccgc agccctcgag 2640
 aaggcacgtg aatggctttg tttttaggtg ggtgattttg tgggcgcgga cgttgcctcg 2700
 ctgggcaaag cgtttttgac atacgtcgca ggtgaaaggc ttctctccgg tgtggcgtct 2760
 ctgatgggtc tattttcagt ttattcagtt agtcccacac tcgttcgttt tgccgatact 2820
 actgtagctt accttaaggt taccagctg cgagaatcgc tggccgcaag taggttcttt 2880
 gcagacctgt tatcattagc cacatgccct ctgcggattt gtcttactca taacctacaa 2940
 acggcttata cccagtatgg gctctcatgt gtatatccag atgggtcttc tgagcgaaac 3000
 tctttccgca gtgcggcaga gtacaagtgt acttgcgctt cttcgccgag cgggattgag 3060
 actcatcggc aataacagcc cctcgatgat ttacaactgc tgacatgtaa ccctgggcga 3120
 agccatttcc tcctccatgg gtcaactgct gcaacggcgg tagcgactgc aatgctgccg 3180
 gctgcgaggc ttcttgggt tgaatcgctt tcataacac atccacctct gttgagaact 3240
 caacttcgct cgcatttggg ttcttctcat gagcagatac tccgttacca ggagctgcgg 3300
 cgaccgagct ggattgaggt gcagctctct gctcgacttt agccacggaa tctccggaca 3360
 ccctgttgac agcgtttctg gcaggtcgga tgtccgggat cggctgggct aatggaggct 3420
 ctgaggcgag gcgcgcagac tgcgcgttga gcgagtgatt gggaacgaaa aaatgctggg 3480

atcctggatg ctggtgatgg tgattgtgat gttgggggtg ttgtggttgt ggttgggtgt 3540
gttgatgggtg gtgatgagta ttgagaggat ggctgaagct gtatgtcgcc gaaggtggct 3600
tggtggtacg gcaatggaaa cgatgctgta gggttggtgt aaaaggagaa gttatggttg 3660
ctgttggacc ccagcatgcg acgtgaagcg tcagcaccaa cggcattgcc ggggaactcg 3720
ttcgatacag gctctgcggt gctcattgac tcagttggat gcaagactag ttgctgttgt 3780
cgtccggatg 3790

<210> 3561
<211> 2384
<212> DNA
<213> *Aspergillus nidulans*

<400> 3561
gattctgaac actgtccccg agctatcttg ggtatctatc tacgacaaca gcgcttccat 60
gtttgtccccg ctaaccacgc ctctctctac catgtcctct tcaacctgca gcagctcctt 120
aggcgctgag cccttgagtt gggcgagttt ctcttcttg ccttcgatag cggctgcat 180
tgcttctttg cacgttccat cgcgctctc atcagcacct ccgtctcttc gggctaatagc 240
ggcggcgccc cgatagtagc tttgagcatt ccgaaggaga gtcgcgccgt actgttgccg 300
catgctgtgt tcccatggcg cgaaaccgag tctccacctg ctcatctcag catcgccctt 360
cgcgaggtga atcttgggta ggttttcggc atctgggagt ttggacgctt tggttaacat 420
gtctatggct gtggataatg cttgccaccg gagaccaagt gactttttaa ggacttctgg 480
gtcgtggggc ggttgttctg ccgaggctgt gttgaaggaa ataaacgcat ccgctttagc 540
gcacaggcct tctgggtccg ctgatacgtc cagatctcca aatgaagaca ccacgacgcc 600
gtgatatgtt gccacgtcta tacgtccgct tcggtataag acttcattta gcgcagcggt 660
gaatctcgcc cgggacaaat tcaattcata gtggcggttc gagccttcaa caagtgtgga 720
aagcttcttc tggagggaaat ctctagaata ctctctgcc catttaagcc caacgccccg 780
accgtacgcc aggagacagt ccagagtaaa atgagcatat aactgagcaa tagcggtatc 840
cacacgcata ttcttcttca ctggcttgac aacaggaccc catggatcct gctctgactg 900
ctgcgactca acatccggac tctatcgcat ctgatttgat tcttggaact gctccatacg 960
cccaccctcc caagactcat ctggcataat ctgctcatgc atctcagtat atttcagctc 1020

ctggagcaca agacatcgct ggaacagctc gatcgctcc tgcaagaact ttgcggcttg 1080
 gttaaggtct tcctcgaccg gacgcttcgt atcagtgaca gtctccgcaa gactcgtcaa 1140
 cacctgcgcc gtgttgaata gtgcatctgc attgtcctgc tccaatacca gggcctcccg 1200
 gtgcgactgc aaggctacgc tcaaggcttc aaccagcggg attgacagtt gcgctgcaag 1260
 tcgtggatgc tgcgtgatct cgtactggac tctcgctctg tgcaaataca ataccagtta 1320
 gcgtttacat cagcatatac tccatctatt ttccacactc tgcgggaaaa tgcagtatcg 1380
 agaatacgtg aacataacttg ttataagcta gatcaaacgc agtaggatgt ttttgtagcc 1440
 cctcatcata tgtagcaatg gcgcgcataa agaagcgtag cgattttgct gcatcgcccg 1500
 ctcgccattt ctctcctgct tcttcttggt caactccgac agctaggaat tcctctgctg 1560
 ttcgaggggc ctgctgctgc gcggactttt tcttcaactt tgtctccttg aggaaggact 1620
 ttggtttcgg cattataaca gaacggcacc aggtacacaa tgcagaaaaa aacaggggtg 1680
 tctgattcag cctatatgag gcaaacagta aagggcagct gagaggcaaa gaaccgatga 1740
 aataatgcca gatgacgtgc aagtattttt ctgatatccc ggccaatgtc gatagtgcct 1800
 gccttgatcc caccgcttta ccgaccgctt actgtccgcg gggatactct agactgggaa 1860
 ccaataacta gcatcgcat gccgagcctc acctacaaga ttccgattta ctcggcacgc 1920
 cgagcgggtc catatgaaaa aaccgaccac ccactatac cacatctacg cccacgagta 1980
 tttctggcta gagaaaacgg gagcaaaaaa tgacctacgc agggctcgaa cctgcaatct 2040
 cctgattcgt agtcagacgc cttgcccaatt gggccagcag gccttggttg tttactagct 2100
 aagacttttg gcattataga agagcactgt acaatgggcc gaaaatcgtt gacacttaat 2160
 ttagccctaa gagttggggc gactgtacaa tgcattgact gattagatta ctcaagtagt 2220
 aatgctggct gccttcacag ccttggcctt tcaagcgtat ggtaatgatt gaatgatgga 2280
 cagtctcata acgttaaaac cggaatatg taatctcttc ctatacatgt gttaactcac 2340
 atgcagcaca tggaaatgac caaatttact catgcctggt caac 2384

<210> 3562
 <211> 1613
 <212> DNA
 <213> Aspergillus nidulans

 <400> 3562

catcacatac accgggatct gaagctgtga cttcaacatt accagcgtcg acaggtctgg 60
agtaagccca ccccaaagaa tagttcttgc atagtctgag tccaagtcaa ttgctatgca 120
catcaccaac tgtgcccaat gatgcatgaa gatgccacaa aaagaacacg tactcgatgc 180
gatcagcccc ggcagcggca gcgagaaagg cggcatcgga attgaagcag gcaatttcca 240
aaaggggcat tcgctggggc gttggattat tcatagctgc ggcatlcatg tagatatatt 300
gccggaatgc ttcacccttc tggggttgac gctgacagct taattgggga ttatgtaagg 360
gatttgtcac cctggaaata tgactgtcta agactaatct ggtagtcatg gcgccttttt 420
ggcttagcgg tatattttcc cgataggctt taaacggctt gaggcggcac gggcgctgaa 480
ccagaaaggg aaaaatatcg cccaaatcat ccaacaacta gctacatgtt agggcccata 540
cttcccagcg cattaaaccg tagaccccggt cggagggagt atggagatga aataccagat 600
ccgaagagga actgagttgg gaggacacag gtcattcttc ggtgtaccag ccttgggtgtt 660
aacgtgtcgc acaaataagc ggccacacat tggtcaggtc tctccaggat ctattacaaa 720
gcaatgcttg tttttcctct attatttggg aagctccata ggattcatcc atggaactga 780
aatcatggct gcgggcacag ccgagtgatc gacagccata attacccttg aagtcttaaa 840
gtgaaccatg ttttgcccc agcaggggaag aaatcttcac taaccactt cccaacacgc 900
agctgagcac ataatttgtc ctctaataga gcacggccgc tcgttcattc cgttgtgagg 960
cttctggtgc agtaacgtca gcagagcccc aattttgata gtcatggcat ctgctagtcc 1020
tgtcatcagg agaattagaa aaggggaacg cccctttctt ttctccttcc tccaccttcc 1080
ttgctcatgg tgtgtggaac ggtctcctgg acccgagct tttaaagtat cacaatgaga 1140
tcacgctgg ttctcgaaat ctcccggcta atcctcctca tattattatc attaaacgca 1200
gcatcagcag cagacaaccg aacatgttat atggtcgatg aacagacaat tgccgtcgac 1260
catgtgccct gcaccacaaa gcacaccacc cactgctgtc acaaaaatga tatctgcgtg 1320
tcaaattggc tctgttggc ccaaagaaat ggcgatatgg ttttatcccg aggcagttgt 1380
tccaatgtga attggagtgg agatttgtga tctgcaagac catgtggtat gcttagcctg 1440
ctctcatcca ctacactacc ctcatcctac agacgtgcca tgctaattctc tgattcgtac 1500
cacagccccg gcaatacat caggcggata cccgctcgtt aacgccgata tcgccaatca 1560
ccagttttgc tgcggctccg tcttaagctc ctccgctcc gatggaatcg agt 1613

<210> 3563
 <211> 3749
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3563

gtatatgcag tgcccagggg ataaaagacg cgacggactt ataagttgaa gatattctaca 60
 agacattatt tagtataagt gcaatacaga attagttccc ggtcgcacga ggctcttgta 120
 cctccgaagc cattggcatt taagattcct tgaactccag atattcggtc ccgcagtcca 180
 cctgtcatga gacaggacct cagtgttga tgggttgga cgtgattgga agaggtcaac 240
 ttgaatacat gaatgttttt gccatgcct gccgttcccc ttggcaccag ggagctagaa 300
 ctaccggaaa atcgcagtgt ttttgcttgc cttcctgtat agagcctgga taccacaggg 360
 gacgatctac tgggccagag agccggaagc cggtcacgcc ctaggattgg atgtttcatt 420
 ttaaggtaac ggtcagtcac catgtatata catctcgggc gtctcccgct cgtacacggt 480
 ggccttgact tctgcctttt catacaccgg taagtcttag gtacgagcct agtgaagtct 540
 gtcgcgtacc tgctttaacc cttgagcaag tagcaggcct gtggagctag cacctacgat 600
 tatgatatgc aaagccatgt cgggagagat gaaagtgaat agaagagcgt tggatacttt 660
 gagtgaaatc atacagagct gggagactgc ctccctttta actctgctag aacgatcaac 720
 aagtgtatt ctgtaagtc ttcattatta tgaccggggc tggggtctgt aagtacggcc 780
 aggaagctga taggaatacg ccggtcctaa tacgcgcaga tcgtataact aactcaagct 840
 ctaaatagag ctggtatgaa ccgcaagagt gctattttct ccagcccgaa gcctttgctg 900
 taagcacttg gagtttgact ggcgcaatgc tctaaccata agctgatagt tgtatggggc 960
 gtattcgtag agaaggaggc ccagctgcgt gagcgtatcc gtgaagcttt cagtatgcta 1020
 atgtatcctc acttcccttt tcgttgtaa ttcttgggag cctcaccaca tccaagtacg 1080
 ctgcgtatgc atgtccagac tgcgtacctt gatagcatgt ggccgtatga ctagagcttt 1140
 tgggagtaca tccagtgtct agaattctct cccaagttgt agaagtacgt cccatcaatc 1200
 caattttagt tgttcctgtc ctctaattag catctgatgt atcagagccg tcattccacg 1260
 tcaaccacaa gctgggttgc gcaggagagg tcccgttac tgctgtgcac tgagttatat 1320
 tggaacagat gcccaattcc atactccgca cgagttatgg caactgttgc tgcagtagct 1380

aggttgcaag tgccgttttt cttttagttt actgggctca attcgactta tcacaggata 1440
 gactttcatg tgatggaaaa atctatatct actttgtaat cagttgccac gcggtgttgt 1500
 catataccaa tgtcaagttc atatcaagca gcacattaag aactttcaag tttcgggtcca 1560
 aaagccatcc tgtcccagct cgctacttgg cggaccgtct ttgtaccgtg tgctatgagg 1620
 ttgcaaaact aggcacgtag ctttagtgcc gcgttttctg tcagtatcag gataaacgga 1680
 gagagaagtg gcccgcagct ggattaagaa caattctgtt cgtcccttct ataagggcca 1740
 actctcagat cgaagcagat attctacaaa acctgttttag gttatacggg attccgcccc 1800
 tcagtgtcca tttccgagtc cctgaacctt ttgcagcact ccctcactga ttgatatcat 1860
 ggcgtcctga agcttttatca gcagatacat attaaaagcc agctgactat gcatattgtg 1920
 tatgttggaa gccaaacaat tagtgtgagc atagtgactg cttgcttgcc tgtagggca 1980
 gtggcaagcg accattttacg ttcgtaaaac ttttaaactc atcctatgcc atatcgtgag 2040
 tgattcagat ggctcaaga gtatgacatg atgcctgcc tggccagcac aaaagccgca 2100
 tgaagtatac ctaggcaagc ctggaaatgt gagggcagaa ccgaaattca tcttgaaacc 2160
 ctaagagact cctgccatgg tgagtataca tatcacaacc tcactccatc taattcttac 2220
 gttaccaa at aggggaagaga gcggatgatc atgattgaaa tcaatgttat taccagtgt 2280
 gtttgctact agcaaacaga cgctccact tccatgcaga ccagccacac cgacaagctc 2340
 atcaatcgat ctaacctcaa cgcatgggtc cttctatata catgtactaa tggcactata 2400
 cgagcagcca ttgtcgacac aactcgccct tattggacct tctccacgtt ctcagccctt 2460
 ccctcggtt tcttctctc atccccaaca gtgacagtcg ccctctccat ctcatttcga 2520
 gtatcaacat gaccaccaac cttctcggtc tccatatctc gaagttccgc atcgcgattg 2580
 ccatacaaac cgatcttcca ccacggcaac tggaataacg catccatgct ctctagggtc 2640
 ctccccctcg tctctggaat gctaagccaa acccacagcc cgcccaggat cgtaacggcc 2700
 gcaaaacacc aaaacgtgcc tttggggctc atcccaccgt ggctcgtggg caggagcatg 2760
 ttcgggacag cgcgcggtt cccgtactgg ttcgcaaagt gcagcgtcat tgccgtgctc 2820
 gtggccatag cgcggatag cagcgggaat aactccgccg taagcaggta ctgcatggag 2880
 ttccagccga gggcccatcc aacaccagaa atgtaaatca tggcgattgc gccacgagat 2940
 gagcctttct ttgactcggg aaggatgtag gagtcgtcga cgccatttc cggggtgtct 3000

gtaaggaagg cggcaatgta gatcatcgag atggcctgca gggatgatgcc gataagcagg 3060
 gcgcgtttcc ggccgattac gtcgacgagg aagagggcgc agatcacggt tgctgcgagc 3120
 ttgacaagcc caaagactgc ggttacgagg aggccttttt tggagcctct gatgccagc 3180
 agggagaaga ggtcgggtggc gtaaaccgta atactgccag caccggacca gtaaagtcca 3240
 gaatgcatca gacaggatgc tcccatgtaa agtaggtggg tgagacgaat aagatgggtc 3300
 gacgtacctg tgagagaatc tgcaccatag ccgcaaggta caatcggat agattggagc 3360
 gaaccaagag ggcttctttg agcacgcca gccagcccag gcccatcgtg gcttccatct 3420
 ctgcttcgtg tgcggctcgg atcccgttca gctcttcgag aacgtactca tggtcagttg 3480
 ggaggccgcg gagcttagac aggttcacga gggcctcctc atagcgagag cgtttgatca 3540
 agaaacggcg ggactcgagt tgcaggaaag agagcagcaa catgagcccg ccgaacatga 3600
 tatgcaggct tgttgggact tcttggcatc agatgggctg gtcaccacta ggcctatgcg 3660
 gttaaagttc aataaaaaag gaagtcagtc gcctatggct catgtgtagt agcaaccacg 3720
 ctctcagcgc ccccaaaaac aacgaagtc 3749

<210> 3564
 <211> 4776
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3564
 tctcgataag tctccctcc ctttttgttt ccaccgctcg atatttttct tttatctttc 60
 tgatttgaat atataacata ccccatatcc catggcttta actcacatca gttgctggct 120
 tttggctttt ttttttctta acacttctta catggttaca ggtaaccaga taatgatttc 180
 acgcaatcag gcgtgtgtat ctagttagct tacgcttacg ttctcttggt tctacatagt 240
 cttgatatta gcttggcgtc aaaggacggg tgggtgcctg agctacttct ctctctccct 300
 ttctctatac atattcctat cgctgctgct atctcttctt gcattgggtg gctttgtatt 360
 ctttattagt ctattcgatc ggattgttcc tagtgacctg gatcggactg ataggctatt 420
 tctgaatttc aaattgtact tctatttggt acctatttaa ctaattcttg ctcttaagag 480
 tctgatatat catctagttt ctgtatcgtg cttcgtcgta aatctgcaat gtagtctagt 540
 gtaacttaaa agcagacgca ccagaaacaa agaccttacg tctgtatgtg atttgagccc 600

ctagcgccat aactccaaca attggtgaag accataatag aatatgcaga aaagtttctc 660
tagcgtaatt atcatgtact acttaatcac ctctctcgtc ccccggaaga acatcatacc 720
cctgcacagc ctcttgagat tgattctcat gattgacaac caaaaaggaa aaaaaaaca 780
tcgtcgcccc aaccaatat aagggcggtg catactcccc ctgcaaaaaa atctggccca 840
ccagcgaaag gggatatgtc agactaagcc ccaccgtcac aacgagcgga gacgtaagca 900
gcatcgcata cgcccaacag atatcggaag ggagagagga gagcgcggtg atgagaataa 960
tcatccagac tctcctggta ttgggtaagg cgaagggctc cacaccagtt agatgcaaaa 1020
gcacgaaacc gggccagaga aggaacatgt tgaagacacc gactaggccg aagaagagct 1080
gcatgttgac gcgggactcg tcgccaactt gtcgcttcag cacgaccgtg tagacgccat 1140
acattacggc gctgaaagcg gccatcgctg cgcctagggc gatctcgccg gcagatttgg 1200
gtgggaatgt gcttccactg ccatcacggc cggcgctggg gtcgtcggtt gcggagaggt 1260
cgacgcggga tatgaggatt atgcctagca gtgaagcgat gacgccgaga aatttgccgc 1320
cgggtgaattt ctgcgcgc agcacggcg caaagattag ggtccatacg cctggggcag 1380
gttattattt aagatttgt gtcttgggtt catgtgtagg ttaagtaaca taccgctggt 1440
agatgtcagg attgtggtgc tgccgacggt agtaaattgt agacatgcca ttgagaagta 1500
gtttgcctag catttaaaat gcagttgatc aacacatatt tcaggaaggc ccatgttggc 1560
accctatcac ttacagtaaa ctagtgaac tccattagcc attattcacc acaatgaaag 1620
cacggcgcaa aagttcgatt gaggggaaca ctcaccaca acaaacaaaa atgaaagctc 1680
agcttcgagg tctccttcag acctaatctc tcttttctat gacctttacc cacactacct 1740
ctcctagaag cgctccacgc tccggaacca tcatgccc atgccatgcc aaaatcggcg 1800
ccaggaccag tgccatggtc atgactgaga atgcgctcag attcagcgct tgaataactg 1860
gaatcaaagc gttgtagtag ggtttcaa atgactgatct ggtataattt ccccgcacgg 1920
aagagactcc agagcctgct ggagacgatt gtgaagagt gcaggatgaa gattgaggta 1980
ttcaggtagg tgacgaaaaa cggtttgagg tacgtatcat cggcgaagat agtctgtgag 2040
aaggagtgtg agagttcttg ttgagaatc caagacagtt cggacaaata cctacactag 2100
ccagaaagtt cgacgcggtc catagtatca ccaactacc gagcagacag atgccaggg 2160
tctttctcgc ggtaccggct agtccagagc gtcttgcggt cgacggagtc tccattgaga 2220

tccaaaaatc ctgagggttt gcgtcagat gagagtctgg agctgccgat cgtgcgtgag 2280
 attgcgttat cagtcgcaat catggagggtg gcccgctgcg gtgagatacg cagcgcataga 2340
 ccacggcatt ttcaacgact gtctgcttta gtaactagca catttatatt aataaaagac 2400
 tactctctaa gtccacagcc atatttataa atttaggttt atatatggag atggttctag 2460
 aggtcccaag gcgtgggtgg tccaccgaac tactgcgggg tcacggggag tccccttatg 2520
 cagcaatca ctgctactcc gtaggtgttg tcaaatagta atgatgatat tccagactcc 2580
 tagtaaaccg taactatacc ctcatataga caaaacatc aagagcagag cgagtcgaa 2640
 tcatccgaac cagcacgaga aaaagacgtg gaagtgtcaa acgaggaacg ccgaagttgg 2700
 atatacagat acgtcatgg taaatcgcat ttcttcaagc ttcgagcaga cagtgtctaa 2760
 agcgcggcag aacaaaaaaaa acatacctta accatcaaac aaggataaga gtgtagcacg 2820
 gtagccgtaa tcagcaggcg caaccgtcgc gctcggtagt atcgtggatg ttgatcggat 2880
 cagtgtagtc gccaccgtat tcttcagctt cttcttgagc caaagcactt cgagcaatga 2940
 ctatggcgga tatcagcaat gttccagtgt aacactactg aaaagaaata ccttcaaaag 3000
 cttgttcgac gttgacagct tcctttgcgc tagtttcgaa atacggaatg tttcctttcg 3060
 actggcaaaa cgtcatggct cgcttagaag agatcatccg cttgctttcc tccatatcaa 3120
 ttttgtttcc aataacaacc tagaaagcac gattagccga gcgcaaccac ggccccgatga 3180
 cgacttacga atgggaaact ctcaagggtcg cgcgactag cctgaatgag aaactcgtcg 3240
 cgccactagt caagtgcctc aaagctcttg gagttattca catcgtaaac aaggacacaa 3300
 cagtcagctc cccggtagaa tgcaactcct aatgactgga atcgttcttg cccggcggta 3360
 tcccagatct actccacttg gttaatttgt gaatggaaca tgcggtaccg tgaatacgtg 3420
 cctgcacgt tactaggcgg tcatcgacta gaacttcctt tgtaagaaaa tcggcaccga 3480
 ttgtagcctt gtagcttccg ctgaacttct tgttgacctt gttggggaat cgggtgtgagc 3540
 ggagaaacga gccctgcttg ggaataaaag gtaactgaca tattggttca tcaaacttgt 3600
 tttaccgaca ccaactgtctc cgagaataat cacctagaaa tgataaaagt cagctcagga 3660
 cagcggcgta gtggcacagc gggtaaggta ccttcagcat gaccttcttc cgtgatgaca 3720
 tggttgtggc tggatagtca ataagagcgc aaagcaaaat tttagaaaag accgataaga 3780
 gttcccaaaa gcgagagatt gtaggctcaa ggaccggcgc cgacgcaaga tgataatcag 3840

ttgggagagg cgatggtgag gagtagtagt tgggatctcc gctcctgatg atgaaagcgg 3900
 tgtgacgggg gaggcactta aagatatgag gggtcgtctg ttttagcctt attgcactta 3960
 tatagtgcag cctgccccat cgcggcgggt tctgaccaga gcgatcttag aagattgaaa 4020
 cctcgcttgg ttgcgccctg cgatgcgtcc ctgagcatta tctttacccc atgaccttct 4080
 gtcgtgattt gtatggctca ctggagggaa gaggacgcgg cggcgttggc agctcgtgat 4140
 cggcgtgaga aggccaacgt cgctatctac aatgcttgta cgcacaccta agtatccaat 4200
 tcccaatggc tgcccagccg actgaactttt cggtttgctc cagatagcca gctcgccgat 4260
 agaacggcgt cttcaatgat agcagtttct gatctccaga gcgacgctca gcgatcggca 4320
 ctttctactc cagtcgccga tccatagacag cagcagccgt ctccggcatc agggccctct 4380
 ccgcaggaca taatactcgc aattcgggca gatttagccg aagcgcaacg atctcgctcg 4440
 gaactcgaag aacagctagc acgcgtaaca acagaattgg agaagttgcg aaggaggaac 4500
 atccaaaacg gcaagcggat cagttcgatg gaaagtgaaa tcacacacct gcagcttaga 4560
 ctgaaggata gggatgaaga attaagagag aaagcgaaat tgttgagggt atggtaccct 4620
 attccttggc atgagtttta tggacggagg agtattgaca cccgacgtat atggtcacia 4680
 gacgagatcg ccactttgag ctacgtcaa atgctgagag cgtcgaaccg ctacagaggag 4740
 aatcagactg atgtcgtgga tggccgggtg aaaaga 4776

<210> 3565
 <211> 3181
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3565

ggctgcagga gtggaagggt actgtcgctt ggagtatcga gcgataaagc gaatcaactg 60
 cgaccacacc tccaaaaact aagcgctatc aagaaatgac caccgcgcga agacaaggag 120
 cgggctatgg aaccttgctt atagtaccat tgctaagggt cttggcacgc agtgctacgg 180
 tcgtgtgaat acgggaaaag ctgcgatatg agactcgctt cccgcataaa ttgcagtctg 240
 gctgcaaacc tcagtctgga ctcaacccat cccgactcg ttcagccttg accttttgat 300
 tgaagcctga cttatcacgg cctccgtaac tgggactgga gagaccaaac tcttgcttgc 360
 tacgattatg gccgacacac taccaaacga ggccaaggga ccagatcccg acgagacagt 420

caaggaatgc gtgccaggcc gcattgagct ccagtcgatg agccaagaag aggacaagag 480
 aattctacgt cggatagacc tctagtatgt tgtctgcagc tgtgggtccga cttcgcttat 540
 ccctgatacc agcctactcc ccattatggc cgtgtcatac atgttccagt tcctcgacaa 600
 atccgctatg agctttacag ccattctggg gctggaggag gatctccatc tcgaaggaac 660
 ggattattcc tgggcgagta gcatttacta tttcggctac ctagctgcat cctaccctgc 720
 agccattctg ctgcttcggg tccccgttgg caagatgatt tctatatcaa tgtacgttta 780
 taccatggaa tgccacctct tcagtcgctg gcataatgct cattgtatca gcattatctg 840
 gggcaccgtt ctgatgttga tggcattggc cttcaatgac aaaggcctca tcgccgttcg 900
 gttcttccta ggcgcaaccg aagctgccat tgcccctggc cttagtatcg tggtttcgat 960
 gtggtacaag aggtccgagc agccctttcg ccacggcatt tggttccaag gaatcaccat 1020
 cgccggaatt tttggtgggc tcgtggcata tggaattggt cacatccgaa gcattgctcc 1080
 ctggaaggca gtatcccttt atatctgcgc agttgccaaa tagcccctgg ctaacctttt 1140
 gactaggcgg tgtttttgat atttggcgcc gtcaccattg cctgggcatt tgttctcttc 1200
 tgggtggcttc cggacacccc gatgaacgcg cggttctca gcgcagacga ccgacgcaag 1260
 gctgtttcaa gggttagcga gaacatgaca gggatcaaaa acgataaatt caagctggac 1320
 caatttggtg aggtctctct tgacatcaaa tgctgggctt tagttcttat tcaaattacg 1380
 ggttcgattc ccaatggcgg cgtttccaac gtaagtcctt cgggcctgca gcaagcccta 1440
 acccttacac ttttactcac cagaaccttg ctaataaatg ccaccagttc ggctccatta 1500
 taatcgaagg cttcggttc agcacgctga atactctgct tgttcagatt atagtctacg 1560
 ttttccaagg tgtgctcgtc catctttcca ccgcaggctg ttcattggtc gaaaacagcc 1620
 ggacatactg gatggtctgg aacagcgcg cttctattgg gggtgccgca atggcccgac 1680
 agattacacc cgataatgtc tgggcccggg ttatggggta ctgtcttgca aatgcttata 1740
 gcgtcaactt cccgttgacg cttgccatgt caacggggaa tatcggcggg ttacgaaga 1800
 agactacggg aatgcattg gtatgaatat gcattcata tcagcctctc aattaaagcc 1860
 tctgttgaca tgatttatca gatcttcac ggctactgcg ccggcaatgt tgccggccca 1920
 catctctttt tcgatgacga agccccgtcg tacccttcag gatttctagc aatgcttata 1980
 tgcttcgggtg taccgttagc tcttgccctt ggcttgagat attatcttat ctgggagaat 2040

cggcgctcggg accgtcttgg acctgtagac accgacgacg ccctggagga gctggatgct 2100
 gccgttcttg acaagaccga taagcaactc ctggagtttc gctatgttta ttagtgtgga 2160
 tttaggcggc agtaaggcct gattcatccc gatattctta ccaacttcca gccaaaatat 2220
 gctatcgctt agccccccac ttgggggtcag cctcatagtc ctgatataag caggctaaat 2280
 ccaaagcaga tgcaattgca tgactctaata cgccttatta tgttttcagt agtgtttgtg 2340
 caatggcttg aacaagatga ttggttaaaa tagagcaatt ggagcccca cagttagatc 2400
 ctgtttgaca ttgatattct gaaatccatc actgcaggct ctcttcaatc ctttagttgg 2460
 catcgagttg actcggctaa gaatattgga acaatgacaa taatatctta attgtgagac 2520
 tacataagcc ctgtgtcaat ggctttagg ggaacatgga aaatgccttc tcagactcaa 2580
 cagctaactt tttccctatt aattaacaag tcagcagact ggttacattt atttgtatga 2640
 gtgctttggc cacattttgg gttatcaagg actcttcatg catctagatt ctggtataag 2700
 gactacctag aggaacttgt tagctttgcc gtattagcta tgcagactat cgctccgaca 2760
 ccacagtcaa cccgggagaa agagttgtga tctttgtcac cactcattat cttccgaact 2820
 tttggcagtt ttgtgtccga gaaagaccat tcatggcatg gaaaaaaagt gaaatgaaga 2880
 ccaactgaaaa agcctatcac agaccataaa ccgaccaagc tctgcctgta gcagaactgg 2940
 tcattctgat ggaaacgaag gctgttttac agaccacagc cttatcggcc tgaacgaact 3000
 aacaagcctt tcttaggaat ctttgaggta ccttagcaat tttttgcaac ctgataaggt 3060
 aacatataag actctgatac cctattcagg aataccattc taataacata gcgctttacc 3120
 aacacagcaa gatactaccg tattcaagct atttatacta ataaacaacc cttattttaa 3180
 t 3181

<210> 3566
 <211> 1012
 <212> DNA
 <213> Aspergillus nidulans

<400> 3566
 caacctaact aaaacgctcc tctattgacg tcgaggaaat tcaggactca gaagacgagt 60
 ttcttccatc tccaagcgcg atcctgaatg aattcttggc cagccacct cggaaggga 120
 agcaaagtaa caaagataca aaacagaacc ggcaagaatt gcctacatct accatcccct 180

caagccccgag tccaaaaagt tcgttggcgc gtgattcttc tctgtctcca actcgacaaa 240
 ccaagaaatc aagaacaatc cctcccgctc cagtgaaaag agacctcctt gatttaggcg 300
 agcagatcac aaaagctgtc cgtgcccagc caccgacgaa acagaattca aaccctgtca 360
 ctaccggaac gcgaaaaacga cctacctggc atgagaaaat cctcatgtat gaccctatct 420
 atctcgaaga tttcacttcc tggttgaata ctgagggact tgctcttgct gatgaagaca 480
 gggaggtcgc catcggtttt gtccgtcaat ggtgtgagag taaagggatc tgttgctgtt 540
 ttaggggtcaa gaagacttct gaacgttttt agacctgttg gtaacttatt ttccttcctt 600
 ttttatcttt tgatttggct taagttgaga atatgcggta gcgttgattg gttggtatct 660
 gtcttcgagt ttgtcttgaa atgttgcata tgcggcgcta tactacacct ggaataccct 720
 tagtgcaatg gaagttatat ggtcgcgttt cgccacatta tttgatattt tgaggatgc 780
 gaaacaatat gggattacaa acaacaaggc atcaagatat taaactgcat ggaccaagat 840
 aagtaggtat aaaaatgcac aatagacctc tggtgccgaa ggaaagatgg gggtagattt 900
 gagggagggg gggaaagctc actcaaacca catcctttca tcaaagtctg catcgtcatt 960
 tgactcacta ctttcttggt tttagcggta aagatatttt ctacattaag ga 1012

<210> 3567
 <211> 2560
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3567
 atcggcctgg caagtagagc caaccatgtc ccagcgcgat tcgagttcat gcgagtcgtc 60
 cgtggacagg gaccgtttga gatccacacg tgcaggggtt tctgctcgta gcatgtccga 120
 gtcgcggtag aacaccatat actctccgtc ctgtctggga atgtcaacat cctgaggacg 180
 ctttctctga agataagtcg attgcaattg aacatggtgg ttgtcgccgc gaatattgaa 240
 gacaccctca aagagcgggc gaggtccgtc ttctttcacg tatatcctcg tccaccaaac 300
 aggctcccac atcccttgct cttttcctcg tcctatcaag gttcgccctt taaagacctt 360
 gtgtttgtct cgtgcgatag gctcttcggt atgaacttta ccgtccgctc caagatactg 420
 cacataagca tcgtcggcaa taatatcata gttcggttct agtcaagtt ttatccgctg 480
 tttcttgtct cttatcgtaa aggtgatatc aaaatgtgaa agatgggtcaa cgcggtaggt 540

tctgccggca gccctgatcg ccggctgctc aagggaggaa actcgtcgga tagcgctagg 600
cgtctgtgat ctggcttcat ctctggtaag catggtcgaa gcgattcgta caatgggtccc 660
gaaaacttac ctagtacgct gtctgtaaat agcgaaagta cgccaacaat tagcggcagt 720
accgggttga tgagtctcat ggccggtgat tgaaacgaac ggccgcagta gtagaatcgg 780
tgattatttc caaacgacag aatttgactg aagaatccag agagggtcca cgaaaagggg 840
cgaatgaatc aatccaatgc gcttggttga ttcattgcat accaagaccg aatgccaggc 900
aacagcgaaa gaacaaataa ccgactcagc tcggctctcc acgggtccca agagaatgaa 960
acagctatgt tcagcaccct gacacccttg cggctgcttc gactccgctt gaattatgga 1020
ggaaataaga tctcttgaga atgtcgatcg gagacagggc ggaggtaacg gagtagattt 1080
gaggccctgc caagattggg ggcgaggctg cttggcgcaa caacaggaca accaaagacg 1140
gctgaataaa ctcgaaagaa ggagaaaaaa aacagatcag agagtgggaag aaggagaaat 1200
caagagctga aagaggggaa gagatgataa aacaagagat gtgttctgta agccaaggaa 1260
tggttggcac tacgacggcg cttacagaag caccaactag acaatggcat ttatagtggc 1320
ttatgcttac tacgggtgta ttccgcgag ccctgtgctg ataaaccttg cagtcttggg 1380
tgtcgctta attattttca gacgtagaat ggtatacttt gtgtgcagca agcgcgaaat 1440
gggtattga cgctccacag gttgtacact gtacactggg catgctttct tcttccccgt 1500
cactctcca caatgcttca gacgctacag tcagcgttga cggtagcaca ggtagctctg 1560
actgagtcca tgtccgttca gatgctggaa gggatcttg aggttccgcc tcttgctcgt 1620
gaaacatctt gctgatattt cgcccgatc tatgctttcc atcgcccgt atttcagcca 1680
tatttgtcac agcaagattc agaacgcgca gattccagcc cgtcctctcc cgggtggagt 1740
tgcggaacat tgggtgtggc aattctcgga cgacacgttc tgccagggcg tctatgggtt 1800
cgtccagatt gaagacatat tgggggagtg atgccgagtg ggatctgcga ctataggtgt 1860
ggtcagatcc ctgggtcgac cgtggtattg tagacaaacg aaaagtctgc ggtcgagcaa 1920
gccatcgagc ttctgtttct tcgctagcc taggtcccag agagggtactg ccttcggcgt 1980
cactgtagcg ctccgtcaaa tccatctca ttcggcggat caagctagca gcaagtgaca 2040
acatctcttt gcgaacagcc tcaaactgt ccaagtggcc atatgagttc tcaatgctaa 2100
tctgggtggg tgtgtcacga gttcgcga cctgagtacc atctactcca tgcaatagtc 2160

cccatatttt caccgccgata tcccaggagg ctccaggtcc ccctaggatc cgttccagaa 2220
 gcgaagggcc catgcctgga aacgcacgaa catcgcgaaat tgtgacttta ttttcgaccg 2280
 ccgattggtc tgatgctgta atatgagata tgagttttcg agaaagcttg gaaccaatgc 2340
 ctggtattgc ccgtatctcc cgcgaatcaa gaaacctgag cacgttgctt tcgcagtccc 2400
 ctgtcgagct ataaggtggc aaaagcgctg tctgattatt cggcttatga gcactaccca 2460
 cgaccttggc gagaagtttg gaagtcgaga tgcccgcctg ggcagtatag cccttctggt 2520
 tttctagttg acttcgaagg taggcagcat aatgagacgc 2560

<210> 3568
 <211> 2201
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3568
 gattcggcca tatcgaatgc gggaaaaggt tggatatcgc ccctcttgaa gcgggggtgga 60
 cttatcgcca aatggggaag tccctaata ggaagtcggg tctagactat atcgggcatt 120
 gcaggcaatg tatatgaaag cctggaagga gaaagaatac cacgagggca gatgctatca 180
 aaccagcgtg gagaagtcgg cgcgggtgtg tgaagatttg ggattttttt gtggttgatc 240
 caggtacctt acaaagaata gacacctcat gcctcaggca ttaaacttca tactatgaac 300
 aaatacagag aagtatatca tgtttggcaa aggtcaagtg aaggtttacg cgagacctcc 360
 aaatagcaat gctctatagt tttattcagc tggcaatctc agcaatctcc catacgtgac 420
 ccagtattcc atcttcagca cctacttaa catcaacacc ttcactggac acctccctct 480
 ccctcaatat tcgaaaggcc tccagtatgg tcttgcccat atctgcaaac gatttaaaac 540
 tccccgttcc atcctcgggt tcccttactt ccttctcagt caccactca aaatcccgat 600
 gctcggccgg atccagcttc accatctcct cccaccgtct ctccagcgat ggagaaacag 660
 tcccatcatt cagcttatca gctggtagcc ccgcgtcatt tcctatgacc tcagatgcag 720
 gggtagcagc cttcgcctca tgcacttcca caataaacgt aaacttggcg accaagtcca 780
 ccgagtcagg ccgctgcttc accactcgg tcttatccac cagctcgacg aacctggaga 840
 catgcagacc gcactcttcg agtacctctc gcgtaactcc gtctaagatg ctcccatctt 900
 cggggtcaca ggagccgccg ggtccttccc attggccgcc gtaggagtcg taaaagacc 960

gctggaggag gaggacgcgg agaggccggt cctctatttc agtcccttca tgaatatect 1020
ttgttgagcgt gcgtgagaag atgaggccgc cgcctacaaa gtgtgtatat tgagggttgg 1080
cggcgcgaaa gtcgggaaaa gggacggcaa agcgctcgag gtgcggggca cccgtataat 1140
tgatcatcga acgcatctcg aggcagttca gttttggctg aggtcgttct gagccagctg 1200
atggttgttg gttagtttct ttaagttacg tcaatggttc tgcttgattt tttcgaggaa 1260
ggtgactcat gaactgtaat cagtacgaga atctgcgatt cttagtgatc agaattgtct 1320
tagcacagcc agcccagatt atgatgactt taagaggcac tccaggtggg ggcttttggc 1380
ctatcacact aaatagaagc ctgatattgg ggcttacatc ttcgtagtgt ttttctatct 1440
agaaacgtag acaaaattcg ctagggcaca cagtcctagg acaagggtta tgctactatg 1500
gatcaagagg caccactcat acccccttaa ctacctggaa gcgcaatgct catcgttgat 1560
ccccgtcata acatggccag tcttgagttg agctgctttt gaggaacaaa aaattccgca 1620
aagaactgtc caatgcgctt atagccatcg atagcaatga ccgactaaac atttagtaac 1680
attgatcagc aaaaatggta aaagaatgat tgaatgaact aacattggtc aggtcggcca 1740
atgataaagc caccatgctg tgaactaata cccagatatt acaaaagctc gccgtgtcgt 1800
ttggtatagc tttcgttggc caagaaaatt cttgtgcagg tttgttcagg aacagtctaa 1860
tatcccaata gcagtgagcc actcggaaaa tcgaactttg agctgacttt gccataacga 1920
ggtagaacgc cgcgcgctct ggacatttaa caccttgtcc ggccatgccc aaagcccggg 1980
caataggctg gggatcatcc ccggtagccg ttgatgagaa gctctcctta gccagttggc 2040
ccacctatct aaacttacat tctaaaaggg gctgttaact tccgaataac cggctattcg 2100
agttgtgatt tccgaaaaaa tacctcaccg gtggttgccg gtataacgcc gtttaaaagg 2160
gcgatatgac agaactttcc gccaatgtgt gaagcaatcc a 2201

<210> 3569
<211> 3570
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 3569

gtccatttca ttcaatactc caaaacgcct ataccgagag aacaaagctt agacacagaa 60
gctcacgcca atgcggccaa cccgcagcca gtaccaggca ttctgtctgc cttgcctccc 120

cgtaacgcgt cccgaaatct gtgtgggcta accagtttaa aacaagcatt tttcatcttg 180
 cacggaaaac atgtggtctc tctgtaacca aacaatccat ctctgggaaa taggatgctg 240
 aaatacgtgg cggtgcaatt attcgtgtt ccacaaaata cggagtatat gcacaccatg 300
 tcccttttcg gtacttgtag tggacggggg cagcaagaat agtaacaagc taaaagctaa 360
 taaacccgca taaattcgcg ctatcagaca gaggtacgta cgatattgcg aaagccacct 420
 gtcattcaca acttggactc ggggtaatga actggcgcgt atctattctc ctttccgcac 480
 gcccggtgggt cgtctccagc tgcagcatca tcagttaagt tcagccttag gcatactgta 540
 ccaagcatac catcgccga cacgtgtact cgacaactaa ctttccgtag taaatagtac 600
 ggctgatgag gctgcaaggc tacaacggca aaatgtcaga ttcaatctgg acgatcggac 660
 agggatatag gccgccggct taaggaatac gtatcgaggc tctgcttatg gctgatcctc 720
 gcatatcacc agatcttatt tcaggacaaa atcgtactga tcttcatgct gatctcacga 780
 atctcttctc caacgagggt ctatctattc aagctcagta aattttcaat ataccgactt 840
 gcctcaagac ccaagccctc aactagcttg cccggtgcta tatccatcct cacagtttgc 900
 gaagatccag gtgacgatgc cccgcccagg tccctaaaaa accgggcgcc gctcccacca 960
 cctatactac tggcattccg agtgtggcct gataaggcgg cgtgatcgct tgctcggcgg 1020
 actataaagg cttcctgttg tttggccttg cctgcactat actcggcgag tcttgttgat 1080
 catctgctga agtgggaacg cggacccaaa caatccacca cccgcggctt gtcttgacg 1140
 tccgttcgag ctcaagtggg cgggaccggg tttctatgta tgtggtaagg acacggtgat 1200
 gaatgcttat cgtttcgact cgggatagag acgaggttcc agctttgcgt tggttgtgtg 1260
 atgtaagatc tgggatattg ggaatggagg agcgaatgga gagattgtgt gggtcgaaga 1320
 caaggtcata taccgggtta gcttgtttct gggatttggg gttgaactcc ggtaagctat 1380
 ttatacgggt ttctgctgtt gatgtcgagg tagaggcgct gagtggtttc tggagaggac 1440
 ccagctgatg atgtatgctg tggtagatgg aggggtcgga gagagttgat gtcgtgctgt 1500
 cgaagaggaa ggtgtaaagc aatggtcggc actatcatag tgagctcgtg tgataattct 1560
 accaggaaag caaagactta ctacgtatac gacgacctga agtggtagcg agtctgaact 1620
 atgagacttt tgactgtata gacgggctag tcaatggctt acctgtttct ttctgcgaat 1680
 ctgccatctg cacgtgtatt gttctcttgg tgatcttttc agtcgggcta gcagagggtt 1740

ttgatagggc tcgctcctcc aggccttcat ctaggctggc aacctcgtcc tgtaacccaa 1800
 taatgaacct accataatta tcaggctcgc gaaaaccctt tgggcttggg agctccttcg 1860
 tgtctttttg agcattttta ttagctgatt cactggcatt gtttctctta gaatcgtcaa 1920
 tttgcggcgg gctagatgcc cactggata tcccgggcag agtccatgac gagccatata 1980
 caagagttag atacctcacg aatgtttctg ttctgttgtt tatccaatca ctttctttat 2040
 ctccgataa ttgagagctt ccatcacttg cttgtgtctt cgcacctttt ttaggttctt 2100
 gtgaagacgg tcgaggtggg ggcgtgcccc caacaagcgg cgggggaata cctggggaaa 2160
 atgaacgacg tgggacagct cctgctcagc cattgaaggg tgcttgattg cttgtggcct 2220
 tcccagaaga cgcagctcgc actcttttcc tccgtcttcg ccgacgcggg gatgtaggat 2280
 cctcaccgac tccataggca tttgcaccat atctgtatat ccactccatc cactgagata 2340
 tggatacaag tgagcttttt gagacagccc caacacctga gaatatgaca ccgtccgacg 2400
 gtcgtggata aacatccgag ccaagccatc cgtattcagc atcgttctct gacatgctcg 2460
 ctgcttgaga gctcccgggc cggctcgtacg gatcaccgta tcgcgacacc acaagatcta 2520
 cgagaccttc tgtctctgaa acaaagtcct caagtacttc tcgttctccg cttccccact 2580
 cctcttcacc gacccaata ccaagttcac cgccgacggc gagctttatg ccattgtaga 2640
 tctcgacagc tggatttcca ctaaggagaa tatcccagtt ccatgcaaata ctcaacaaaa 2700
 aatcctcgag gagatggcaa aacgtggctc tgccaacatt ttcgtataga atatgaagac 2760
 tcggtccatg gtgaaggaga aagggtgaat gtgcccgcag cagttgttgg atcaggagtt 2820
 gcggaggagc cgtttccctg gacgagtagt gaaaaagggc tccagaggcg tctctttgcg 2880
 aacgaanttt attattagga ttcggcagtc gggtcaggtc gacagactat aagctcttag 2940
 cgttcgttct gataacgctt tcaatgcagg aggtgcgcac agctagaatc caccaatcct 3000
 tctctaattc gtgcaacact gtttgtgtct tctctgtctc cacgtaatcg acagctttgt 3060
 tttctgagaa attccttcac gactcttagc acctactcta acatgttcgc aagtagcggt 3120
 tcccaccttg cgaaggttac catgccctgc gccaggccaa cctggcgtaa cctctcattc 3180
 aagtcacgcg caggctcttt attgtcagtc gcagcagagc tatcttgtcg tcgcaaaatg 3240
 ctggacctcg aggtgtagaa gacaatttgc tcttcgatcg tttcatcagt cgttccgagt 3300
 aagggttgtg agatggcaag aaacgatagc tgcgccggca ctacagacga aaaatcgtcc 3360

tccgacatgg catctcagca aaggccagcc cacaatgtca ttgccaggac gttgttctcg 3420
 ttcataacctc atcccccgca atctggcttg cagtgggctg tgacatcacg tgtcccggtg 3480
 gattgccagt cggagagctt tcggagcttc acgacgtacc cagactaaac aagttgcggc 3540
 gactgcgcaa caatgtttct tccaagaggt 3570

<210> 3570
 <211> 6929
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3570

ctttccctgc gactcttctt gagattacgg cttgaactct gacgttcagc accataatca 60
 gcaccataaa catagttttg gctctttttc gttcttctct gcgggtactc acttagtccc 120
 ggcgagagg cctcgggcac accgtccaga aactcattac ttataccgcc ccagtgaacg 180
 cttttaccgt ggcgaggagt ggcacagtat cgaacgccct tgcgttggtt actgctgttg 240
 ctataaccaa tgccagaaag gtcaccttcc tcggcaatag gggttgcaac ctctcaccg 300
 aactgtggac tcagcccacg gccgtagtat gagaggggct catggtcgct gtcaggatcg 360
 tcgtagtcac actcacgccg gcgatggtgg agttttggtg ctggtgagag acttgattca 420
 cgatcgtagt cgcggttgcg ggcccgtttg gcgggattga cggctgcgat gagaacgtct 480
 gaaagacggt cgacgaggct gtaaaggata ggcatttttg tctgtcactt tgaaattggt 540
 tgcttgtcag tttcaagatt atgagaaggg ttttgcttgc ttaatttggt attaaggcat 600
 acaatatcga gggagagacc ataaatagac ctattgtaca aaatgggata aaggggatga 660
 gagacaattg cagtcgctgg tgaaagggtt atttatcttg atgagggccca aacatatcct 720
 gtcagaccat ttaagttttt tccggcattg acttgatgaa aagggtgaaag gacaaatggc 780
 tgcactttgt gaaagggtc atgtatcata agagcaataa atgatcatga aatccattca 840
 aaccgaaat aactctctaa aagagaatgc ctaacctttg tcttactttt attcattata 900
 gtcttggtat acattcgtcg tattgtacat gtcaagccca gaccgaacaa gcagaagaag 960
 gtatctctaa tcaagctatt agcaaatagc aaccacggca aagaacgagc aactcacac 1020
 ataagagatg agaaggaaat atcagacagt attagccgca tgccttgccg gcgcctgagc 1080
 ctctcttca gcttgtatct ccctctccag tgccgcaaaa tccccctgga aacacccctt 1140

gaccggctcc gtcctcacat cccaaacatc ctcactactc gggcctgtct tatatttaat 1200
ggctttcttc cgataatgat cccggatgat cttcttcttc tcagtctccc ggaacgtccg 1260
cgtcttcata cacagccaga aattctccca gtgctcgctg cacgatcgta gttcgccata 1320
tctataaaca ttgacaaatt gtccgcctag cgactgacaa aagaaggcgt agtcaaaggc 1380
gtcacggcaa gacatcgat cccggtagag ggattcgggg gctatggacg ttggtggaga 1440
ttgaaggctc aatgctgatg tgcccgtagc tgagtctgtg gttgcgcctt cgactgaggc 1500
ctgttggtgc tgttcggcct gtttgatgtc gctttgtaga cttgcccata atttggcgac 1560
ttcggcgtct gcttgctctt ctccgctgag cttttgtgac tctgattgtt gttgcgttgg 1620
tggttgagtt ggttggtctg agggttgagt tggttgggac tcgggtgagt cctttttagg 1680
agccaatgaa ttccagagcc aaccatttg tacgagtctc gacctgtgtt ccagacaagt 1740
aatgtgtata tataggtttc ggtgtgtagt taaatgcaat gttatcaatg ggcggagtta 1800
cagagacgat gtttggtctg tttgcgctgt ttgtctccgc cgcttggcgg tgtagcttag 1860
gaccgcgtcat tgggtctaaa acgaaccgat aatctatgaa ctctaatacg ctagatcgac 1920
tctgacgtca cccatcgcaa acgaccagca gctcagttct tcacgctcg tctgcgttta 1980
cagtatgctt ccacctcgc aagcatgacg cgcgcctat tctctggaag ggtgttccac 2040
ggttaccggc gtttgccatg ctggcggatc tcttctgctt atcgggtcct gaatgtttat 2100
actgcccagc aagcaagttc taccagtaca atcggctctg cgaacgtcag ctgcctcgag 2160
acgggacata tcactttgga agataatgaa gggctagtat tcgtcaacag tgagaattta 2220
cgcgtgtgcg tcttgggtat tggctcaaca tattctagat attttccac gaaagcttca 2280
atggctacta caattgggcc ctctcaatgg cacgcattcc tatgagaaag ctttgaaacg 2340
catcaaccgt ccgcaacttg cagcgtccga tccgctgcat atcattcgcc gtgtacttcc 2400
ccaagacctg gacatcgacg tcaaagacgt catccccgc ttccgtgaag gcggtgcctt 2460
tgtgaagtat gctcgcaaat cagaagcaac agacccgaa atcgaggcta gtatcaaaga 2520
gcatttgga aagaatccta tccggccgtg gttcaacccc ttccaacaag caacagttgc 2580
tcacgtccaa ggcaggccgt ggatcgaaga cctctatcgc attcctagtc cgcgtataag 2640
agttgaattt catccagcta cacctgaggg gtcagcgaca gagttgacca cagaagtcct 2700
ctactcgggt ttccgcaggt atggaaaact tcgttatatt gagcaacagc cgccggactc 2760

gaaagtcacg ccaaggtatg cattggttga attcgcacgc cctagcaacg cggttactgc 2820
aaaaaactgc gtccacgggt ttaccatacc tctgaagga ggagaaggca agtccggcac 2880
tcgggtcaag atcaagtatg aaaggaagat tagactgtct atgatcaagg actggctcct 2940
gagccatccc cgtctagtga ttctgccgt tgccgctctc attgccgcta tcacagtgc 3000
tattttcgac ccgatacgta cctttttcat caaatgaag atcaaggcga cgctgcagat 3060
agaagagaac aaattccttc aatgggtccg gtaccaggtc agcaaagcga atatatactt 3120
cagacagagc aaaccgatg ttccgggctt gtcagcaatc tgggaggatc gtcataacga 3180
tattgaacag ctcaactctt ggttgacaga aagtgcggaa accttcattg tgatacacgg 3240
cccgcgtggc tcaggcaagc gcgaattagt ttggaccgg actttaaaag acaacaagta 3300
taaacttatt atcgactgta aacagatcca agacgccaaa ggggacacag cgaagattgc 3360
ccgagcagct agccaagtgg gataccgtcc agtattctcg tggatgaaca gtatcagcag 3420
ctttatcgac cttgcggcac agggatgat tggcactaag gcaggattct ccgagaccct 3480
ggatgccag ctcagcaaca tctggcaaaa cactgcggta gctctcaaga gcatcacatt 3540
ggagcaccga aagaagacag atccggatgc gcaactttcc gatgaggaat accttgaggc 3600
tcaccccgaa gtacggccag tagtagtcat tgataactac cttcacaata acccgaggc 3660
taccagtgtg gtttatgaca agatcacaga gtgggctgcg ggtctggcaa ccggaaatat 3720
tgcacatgtc atatttttga caactgatgt gtccttcgcg aaacctctaa gcaaagccct 3780
cccgaacacg gtctttcgaa caatttcact aggcgattgc tctcttgagg tcggccgaaa 3840
attcgtgctc aatcatctgg aacatgaagc aaggaacaag aacaaagata cccggcacga 3900
agaggacctg gcagaacttg atagctgcat tggcgtgcta ggagggcgtc ttacggatct 3960
cgagttcatg gcgcacgta tcgaggctgg agaaacgccc cgaggagccg tcacccgcat 4020
cgtggaacaa tcagcctccg agattttgaa gatgttcatt ttgaatcctg agtccgaatc 4080
acagaagtgg actcaccaac aggcctggca tttgatcaaa accctcgac gctcgaagga 4140
cggcagcgta ccctacaatc atgtcattca atctgacttg ttcaaatcaa acagtcaagc 4200
tctccgtgag ctgcaacagg cggagctgat atcaatcgtc accgtcaatg gctcgctga 4260
gagggtgagg gctggcaggc cggtttatca ggctgtgttc aagcgattga ctgaaaacaa 4320
ggccttgagc agccgcttgg atatggaggt cttgtcacag ctcatcagta aagagaacaa 4380

gagcattgga aagtacgaag aggagctcct cttgctaggg aagctgccaa agcagcctcg 4440
agaactcaca gggagaatcc aatggttgct gcagaagggtg tacaactcgc agaacaagat 4500
tgcaaagtat gaagctgaaa gtgcagcact ccaaaagatg ctgcaaagtg agcattagtt 4560
atcatattta ctttgcaata gtgggcaggc ccgatgtat tctagaccaa tttctactct 4620
gtatattgat ttcacatgct tgctgcgttt gttacggaat ctgctgatgt cagctgtaaa 4680
ttaccgtatc gccgcttcca aggtcgacta acttctgcac gaatctctgc cttttcattc 4740
agtagcaaga aatTTTTTgga tagttaacca tctcaattcc aatgactaaa cgtatagaat 4800
ccgttttctt cttataattc attcctgcc a gggacttctc acctatacct ctgggctttc 4860
gaccctgagg ttcatgcgac atcttcatta gagacatgaa cactatacaa ggagcctatg 4920
atgggctaca gccaaaaaca ctggtcttgg ccgcgatata cattttgata tgtgttatca 4980
tttttacgcg catcctcacc ggacttcaaa gctataagaa gacagacaca gcacagccgc 5040
gtcggcctag gacagcgccg tattggatac catggtttgg ccatagtctt tcgttcgctc 5100
ggaatcacat agagtttcta gagaatacca ggtagtgga atcatcctta ttgcattata 5160
ttttgctgac tctgtaggca tcgactgaac gagactgtat ttgccatcgt gatgagcggg 5220
gcaaagcaca acgttgtcat gtccccatcg atgatcaagt ccgtcttgac atttagagga 5280
gtaacaacgg ccccgctagt tcaacatgtt tcaaggaata ttctcggga ccgggggtgc 5340
tttcagaagc taaaccctc tgaccgtcat gtgtttgtcc ataacgttcc aaaccaattc 5400
atgcatgagc cgtcactatc tcagacatca ggggctgccg ccgattcat cgaacgtgaa 5460
actcctaatt tggtgacttt ctccgcagct cctattgacc agatgctctg ggagcggccg 5520
ggtgatgtca cagttatcga gggaaagggc cagcaagtct gcgaggtaga tttcttcgcc 5580
ctcattagat attttgttgg gaccgtgacg acaacttctc tattcggcca agcgattttg 5640
gacacttttc caacattgct tcaagatgtc tggagtgttg atgaccagtt cgctaccttg 5700
tccatgggac cgctcgcta tttaactcca ggaatttctg cagcgtatat ggccccgtgat 5760
cgactattgg atgctcttgc aatatttcac caagctttgc tactctggga tgaagggaaa 5820
gaccttggga tggaattccg cgaccttcgt gatctggaag acgtctcgga gccgatcaag 5880
aaccgcgcgc gcatggcgaa ggacatggga ctgacgccac aagagagtgc tcctgcgcac 5940
ctagcattgc tctgggctat gaatgggaac tcgcctaaca tcgtattcta ccctctcctt 6000

catctctacg ctaacccgac gctcctggag gatcttcgaa aggagatcgc cccgtttgtc 6060
aaagtctcga ggccgactcg agaggaaacc gggtttccga tactggaggc acctagactt 6120
tctattgaca tcgataaact gtgtgattct tgtgaacttc tgaaagcgag tttctacgag 6180
actctacgct tggactctgc agggttgtcc tttcggcagt tgaccgcaga tctgactatc 6240
acggagagtg aggaagaggc ctcaaaggca ggccggttaa cgccggagtc ttattccctt 6300
aaaaatggcg agctagtgat catacccat ggcgatcc acaacgatcc gacacacttc 6360
tccaatcccg atcaattcga cctctcaga tttataagaa ctgaccaca atccggccag 6420
aagtacgcaa agtctgagac catgactcca ttcggggcg gcatgcctgc ctgcaaagga 6480
cgtgctttcg cggagaaaaa aattctcgct ctttcgcag cgattatattc cttgtggcag 6540
attacgcccg cagagggaaa gaaattcaag attccagagc acagaatctc gagtgctgca 6600
tttttgccga agaattgat aagggtgcg atgtcaccgc gatacccttc gtgatgtaca 6660
tagtttggtt atcgactaga aggtttgtat agaaaggcaa tgatatatga tgagttgtgc 6720
aaatatgcgg ggaaatcttt tgttttagca ctagcaggat atgccagcga attgacgatg 6780
tgccgacata aagcagggtc catatattca aggtcagacc aattggaagt caggtcaaca 6840
tgctggaaaa gaatccgaga tacgaggact tacgccgata tactcgagcc gatcccacca 6900
taaataacgt aaatacgtga cttacaatc 6929

<210> 3571
<211> 2288
<212> DNA
<213> Aspergillus nidulans

<400> 3571

ggtaggggac aatgtactac ttgatgagac ccgccacaaa gcagaacgca accccggcct 60
tttgcaaggc aaccgccgac tcaacatgcc cgtcagccag aacaaagtaa cttgcagtga 120
ctgtcaagaa cccagatca acgaggggaa caccagaata tatgcaacgt tgctcggcag 180
agaagcaact aggaaggtaa acacgaacac ggctacaag gtcataaga agccagcggg 240
tttattgtac tccactgtat ctgtaccgcc gtagacttgg gcaacctcaa acgcggtgt 300
taggcgggag ccgtagccg catagaagag acctaagcga ggcgctattg ctgaagccct 360
atttttcata atggggaggg actgatgggc gaatatgcac caaccgcgct gaacgtgtac 420

gcgaacccat ttccgatact cagctcccac tgcgcagtga ccccgagccc aaaggcgacc 480
atgaagaaaa agttcgcgac gaatgcattc tttgttttga cgcctcggta ggagtattaa 540
agtcccatcc gaagtctgct cgcgaaggaa atctggcttt atagtaggcg atgcggaggt 600
gggaaggaga ataccgttgc agtctggcag cggcctctcc gccacctgat cgaatttggg 660
gggatagaat gataagataa gctccgcgag gcctttgtca tagtgcgtag attattttgc 720
cccttctcac tgccagacct ctgttgtgag cattaccacc atcccacctc tcgttgagac 780
gagacatttt cagccaactt cctcagctac tcttgaaccg aattagtgcg tgaaggccgt 840
cgacagagat tagtttcctt gcactagttc gttggcaatt tattacggtt tacctgcttt 900
tggtctttca gtgggcgggtg cggctctgctt gaccacttcg gatttgatat acacgtgtta 960
gtggactaca gcaatccggg tccattatca gtcagccttt acatctttgc aacccccacc 1020
caaccatatg gaacgtgtgt gtggtcgggt agtgcctata tcacgatcaa tagtcatcta 1080
tcctagataa gcaatgcagc attcattcgg aatggctgtc cggcagatat aatatatctg 1140
atattcaagt tgctgtcacc tgctgaacac catagacttt gccttgagaa tcaggattcc 1200
gggcaattgc tgagccatta ctttactcga agattcagtt caccgccgaa aagaagctgc 1260
atctctctgg tcttgaggcc cctccgcta tcgccagct tttacggact ctcatctcca 1320
accctcaact ggccgcttac atcaaaagct ttcacttaga cggttttgcc tgggccgcag 1380
aggcagtccg attcaagcat cttcagatta tatttcccac ggtcagctca acgaaccggt 1440
cgttttcatc caacggctctg gagtcccata gagagactgg tggagttggg aactccgtaa 1500
tggtcagcc gatgctcttg tgcgctgctt ttatcgcagc ttcaaagtct ggaacatcta 1560
catcttggct acactttcac acgacagagt gcgtttactg gtttaatgct ccaatcagca 1620
gtctgcgagc ctggaaccta ttagctggtg gaacctatta gctgggcaat ttccaacacc 1680
ttcaagaact gtcattcctt cgttttgaat atggagacaa aggatgcggc aggatatcaa 1740
gaatactcca gctatcttgc attcttctat ctaccaaata ttcgacacat gtctgcctcc 1800
atccataatc cggataagtg ggcatggccg catcataccc acctgttcca tcaaagctaa 1860
aatcccttga aatcttctcc tccgtataca tcgcgaacct cactctacca aaatcgctg 1920
gcgattccgc ggcactcgca aacttcaaca taacacaccc gcccacccg cgggcagcc 1980
atacaccatt atcttctgct cctccttcgt gctctcccc aagcccacct gcacttcaaa 2040

ccaatcatgt cttttccaga acgtcgcgcc agtccgcagc aggacattac aaaaattgtc 2100
 ttcttcatcg gtactgggtg cacgctgcaa tgcattgagag cgcgggagcg acaggaaacc 2160
 atgtcaagga ggtcagactc attaatattga acgccgccgg gggacgagta gccgtagacc 2220
 gtgtatgctt ggggtgttgaa ggcgggtccgt tctgtcattg agagagcagg gtttgtgggc 2280
 cggcttga 2288

<210> 3572
 <211> 4421
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3572

gaaacagtgg tcgtttggaa acaccctagg tatcttgact ggcaggggta tgcacgctat 60
 acaaggaaag agacagtcaa tccgaccagt cacagtatat ggtcacagca aaaatagatg 120
 catcgaccga actaaaacgt catccacccc tctttcatat ccaactctcc tgggagaccc 180
 ggtcccgcgc ccgagctggg tcccgtttgt ccctctgtct caaagcacgg aatagccgtg 240
 aattcaccta gttcctgagg caggttggag acgaaatgat cgagcccaat gtgcggcatt 300
 tgcgagaacg catgggggtg caagaaatcc gacggcgagg tgatatcgtg atgcgggaca 360
 gctgcgttct cgtttgttaa ctggctctga gagttcataa ggcttgaggt tggagtaaga 420
 ctggccaagt gtggttgaac tccgctaccg ccagactggt aaccgtcttg cccctgcctt 480
 tgactttgga aaatgttggg atgtgtgttc gcgttcgtaa gagtgtgctc atccggagac 540
 acaggaccag tcttccaaag catttcccaa ttcttaaagc ggtcgtaggc agactcatga 600
 cttcccgact gtccggcgcc ctgcgaagca ctatactctt caagacggga gatagccctc 660
 tcaagtgcct caataacact aaccgcagac ctggccgacc cgacacccat ggacataatc 720
 ttaataagcc ccatgccctt ctgcagcgtt tcccggagtc gttctgtacg ctttgtcaag 780
 ctctgcgcaa gaatgaccaa tagtgccggc cggcatgagc taaactctgt gaaagaggca 840
 cgggcaagac ccgtttcatc tcgaagtaac cggcaaagat caatgatttc aagagcggcc 900
 tcgacgcagt ccgtgacaag ggttgagcgg ttcttgagga caccggagga catgggcgcc 960
 tttactggcg agatctggaa ggtggcagag gaaaagccct tcatactgct gaagagaaag 1020
 ggacgaccaa ggaagattcg tgtagacag tagtccagct ttaggtgaac gtttgcctctg 1080

aaaagcgggc cgtttgggtt taggtctcgg cagtcagttt cttcagggag ggtgttccac 1140
 cagtcgacca gatgtatgcg gagggtgagg agtcgttcaa ggcagtcttg ttgttggttt 1200
 atgcggcatt tccggagggc gcatcttaac cgtcagcggc aacaggacaa ctaagttgca 1260
 cgaacttaca tctcatttga gacctcccca agtttgaggg tcaattttat caatgttacc 1320
 atattggtat ggtagaaaac ttggccgtgc ggcataatc cagggaaatc gacaggcatt 1380
 gcagcgtcta catcctgatac tgacagagat accggtctgc catggagaat gctgactcgt 1440
 ctgaggacaa ctgttagcat aaggcgctac acattacatg ccgcatgact cacttctcga 1500
 tggatatatgc tgtccaaaat accctattcc gaatctcgat cacatggggc ggtagccctt 1560
 cgccgctgta cttccgatgc ataccgttct ggatcgccat tttcaaggca aggccaaaat 1620
 aagtgtagca aagacctgac gtatcgagcg gcaatagata tgtcccaatc aacaggcagg 1680
 cctgaacgct tcgaatagag gcggtggcaa taatgtcagg aagcaatttg gatgcaaatt 1740
 ggtagaacgt caaccaacc tcgtcttccg agaaatggtc agcttcgcta gttaagtggg 1800
 ttaccggggg tgccgattcc atgtgtgcga actgtgttcc aatcgctagg accatcagga 1860
 tagagcacac cgcgccggca tcgttgcata cgagactccc tggattcacg taacaagtgt 1920
 tgagcttatac tttgagccag tcctcttcga cgtagaagtt gtttgtttgc gcgtacttga 1980
 aaaacatctg cactaagaag tcggccacga accgtggcgg tagacttgta accgaagcgg 2040
 ctaccacggc gccagactgt aattgcgttg cgcgccatcg ctcttcaaaa ggctctgctt 2100
 cggtagatgc ctgaatcgag tcagttggca ttgtttgcgg attgcaatga aaacaaggca 2160
 atctacctct ggggactcgg ctttcatcca ctcatcaatc ttcttcttaa tcttcattga 2220
 gaaattcaga taggagaatt cgccggaata ttctgtcgag ccgttagttt gccgtaataa 2280
 gagcgggaacc gccatggtct ccatcccgca tttaggacat acgcgtcgta ttatccggca 2340
 aagcctttat tgtaaagtcc tcgtcctcga tcgccaaatc ctccatatcc tcgttgtcaa 2400
 agacgaccga aggtcctcca tccgagtctg aaccacgggtg tttactcttc agctcctccg 2460
 ctgttttccg gagcgactgt atatcgaaag aaatgttcgg tacgtagtgc tgtaagatcc 2520
 gttccatgca ccggatctc tccgactcga gcatgtcatg acggctgcgc gcggcggttc 2580
 gttctaggag tctatagctc cagaggccca taagcattca tccaccttgt ataactcggg 2640
 gtaaaagact gtcgactcac gagatggacg atgagcgca gagcctgtct gcttgggtctg 2700

ggtgcgtaga ggcgccttgg cgaagatatc gagtgttgtg atggcagggg aggacccttt 2760
 cgcctaggta cgcgacataa ggcaagctga gcaacagatg agtgtcagtg aatacatgcg 2820
 actcttccgt cttctccgtg aaccaaccgt cgttgtctgaa tcccacgcca gcggcaaagc 2880
 caatcagcaa gtcgtccatg ccgagaagac ttccagagcc agcgcagaag agcgcgagca 2940
 caaagtagaa gacgagaaag ctctcgcggt caatcagctg tttacgttcg gcaaactctga 3000
 tcgcgtggcg agccgcatag ccgatcgtaa aaccgaagat cgctccgaac acacactcgt 3060
 acagaatggt gacacaaaac cagtgaagcg agacagcgtt cgcacccggg cggtaatgca 3120
 aaatgtagta ggacaggtag atgaaaggaa acgccatgcc atcgttgcag cctgactcgg 3180
 cggatagcag gtctcgcaaa tgcttgggaa cagcgttggc aaatttacc ttaccgacaa 3240
 cggaagaggc aaggacagga tcggtgggtg taacgcacgc ggcgacacc aaagcctcaa 3300
 gccaggtgag cggcttgatc aacgaccata taaaagact ggtgatcaac cagccccaag 3360
 tcatgaccgg cagaagcagt aacgtgactg acttccaatg ccgttccata tacgcctttg 3420
 gcagctcgac gcctaccgca aaacattgta caacgagcac aatgcgggag cattcaagcg 3480
 tgattttgtc aacatttccc cattcaattg ggttgaacag attcgcagca tggggaccga 3540
 agatgattcc acagatggta gccacagtag cctcgccaat gtacaacttc tccttgacga 3600
 agagagagca aagcatgaac agggccgtga aacctcctag gatcatgtac gccaggtggg 3660
 gcttatcgat atcgagatga tcccacgcca tgacgaaagc aagttatagc gactccaaaa 3720
 gtaatcagat tatccgcgat ttcagcttat cgtgaagttt tccttgctct agtcgtaacc 3780
 cagagcccat gtgaagcgct agtcaaacca tcacaatcga ataagaaacg ctgcaagcac 3840
 tagcaccgag gtggacatgc cctgtcgca gagatccgga tccgatggat ttgatgcggt 3900
 cggaagaga tgctagagga aaagaagaat tagcaaggcg aagccactta taagggaatg 3960
 tcagggcgga ggggcgatcg actagtgagc ggagcaaact gcaacggaac ttacccttct 4020
 ttgtaaattg tagataaggt gagttaatgt gtatgcactt agtggataga gccagctctc 4080
 tgggggggtt aacgagtgc gtataaaact ggagtaaacc aagacgacaa gtgaagtcaa 4140
 gacagattaa gaggagtcaa gaggaggaca agacgcagga caagagggga gacgctctcg 4200
 gcagctgggc gggcaacttg ggaagggccg aaaatgggaa ggagcaacca gaaaattacg 4260
 aagcgaagac caagaccacg atcgagcacg agactcggca ggaggggaac atggcctatg 4320

tccaagaccg tcaactggcga atgaggactt gaatagcagc acaatggcct tttttttggg 4380
gcttggaatg gggaatcggg gatggggagg agaggaaaaa t 4421

<210> 3573
<211> 14909
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 3573

ttaggagaaa caggtggaga ggagaaagtt ctccgtgggg aagttaaaga aggtgatact 60
gccaggtata tatagaaaag gaatatggca ctaccccagt tataaaagtg tgtgaaaaaa 120
gggattacca cccgcaacac aggcctggga ttaagattgg agtttaacac cgagtggaaa 180
ggcgagaaag tcatatctga ttacgtccaa ccgattataa caccagtggc attaggaaca 240
tgccaacaa accctaacca aggtatgctg ctaatattca actcgataga gcctatgtca 300
gggggtccat ccggcaaagc aaacgggagc atcagttcgc tgttcctaag gagctcttcg 360
agcatacatc tttccaacat tgcgtggcct gcgttaaccg cccagtttca acagacgcca 420
aacgtccatc atagcgcact cgtttgaggt gttcatcttc atctgctatt tcttctacga 480
cggtgtcctg aacgcctcag cccatcgcta gctcgccga aatcttccag tataccctga 540
gaggtcgggg aatgacaacc aactttgtcg ggacctatct cggcctagtc aacggacagt 600
tcctcaatcc cagtgccatg gaagacatgg gctggcgata ttatatcgtt ttctgcgcta 660
tcttgttcgt catggtggtc gcaatttacc tctgggttcc gccaaaccaag ggtcgcactc 720
tgaaacagat cgcagagatc ttcgatggcc ctaaaaaaca tctgactgca ggcccgctg 780
atgagaacag gacacgactc tcgacaaaga cagctgaagt ggagcttagg gaggatatag 840
caactcgagg ttaaggatga aaggtgtccc gaggccgacc cgcttcttac gatggcgctg 900
ccatgacttc cttccccac cgcttgccct gcttcttcta tcgttggtcc gcgcttgccc 960
ccgtccttc tcgtctccag acgttttgta cacaggttgt ggccctagtc gatggaattc 1020
aagtctcact tcagcccttc acaaacggca aacctagact tgtaaacca cgggttgggg 1080
cggttttcag gcctagctga tccgcccacg cggtttttgg ggtgggttac ctgaacagta 1140
aaccgcccac gggtttagca aataattcga acccaacca aataacccaa aataacccaa 1200

aataacccag ttatgcatat aattactcta ataagcagtg atctacgtaa ctaataaaat 1260
actgtattta aatactgtat tataaatcat ctaagtaaga aaatgtaatc taaatacagt 1320
aatataccta ttcagatata ttggcaaccc agcaggttgc tccgccgggc tttggggcag 1380
ccaaaaatat tcaaaaccca atggataatt agaaggtcca cccaacccat ttcttggcgg 1440
gttggggcgg gtttcgtggg ttgggtttta caagtctacc tccaaatatt gaaagtctat 1500
ttttaactgg ccaggacata tccaccagg atccagggtc tgcttaattt atactccagc 1560
catcttctta gcttgttatg aggaaagagc tcaagaatac cctccatctt tttaaagaac 1620
tcttcctgac tgggtatatt ctataactga tagacagcct ccttagcagg ataactctta 1680
aactttttat aagagttttg cttcacatgg acctggcaga agacaaggat atataaaaga 1740
tattcatccc attctaatac aggatagatt ttataaagat aatcaccaag aaattccttg 1800
tcatataaag caacttcaaa gccttttcgc aactgctcta tatggttatt agtatcctca 1860
acaagcgctt tagaggccct ctctatagaa ttctgaagca atagagtctt tcggtgcagt 1920
tgtcgaactg tatggggtgt agcaaatgta ctagaacccc tgcttgatgc caggggggag 1980
atgggtgtaga aagcgataca tgaagtttgc tgagaaccct atctgggtca tatggctcta 2040
tccctgcggc agcaaagctg ctctgaatgt tcttctcatt aaaaatactc tgatatgcac 2100
ggggataggc ccctacaaag tcaaacttgt cgatatggtg tttgccaagg cgtgatcttg 2160
attcaataag acctccatat gcacgcttta gcggaccaa acagccaata tctagtgggt 2220
gtagtagatg agatgaacca gcaggcatgc aaagagatat tatgccatta tcctcacaga 2280
gcttgtcaaa ttgaggtgtt agatggcttc catggccgtc caagatgagc aatcgatata 2340
ggccaatcgt acgaggagta ctggcaggaa taaagcaatt ttgaagccag cgaaggccta 2400
tctcgtctgt tgtccatcca ttgcttaact agatcctcca atcacctggc aagccatgtt 2460
ctgcatacca tcttctata aagacccttc ctttgaagat aatgggtggag ggaaccgacc 2520
atcccatggc gttgatacat tcaattgtag ttaccattc acggtttcct ggctgaatta 2580
gataaggatt gcctggcata ttactcctag caagtacttt agcagttgct ataagcccca 2640
tagcaaagcc agtctcatca aagttgtaga tatctgctgg caaaatcccc ttcttgctgc 2700
agatctctct tagatcacia aaccactttt tgatggctct aggattctcg cattcggtc 2760
gctgatgatt atagcgctt gcgaacggag attttagttc tggataaacac tgtttgaagt 2820

tagtaaccca gtttccacca actgggtctg ggggggtattg gattcggttt ggaggattat 2880
attagccatt tctccacat gcgcaacgct tggaggacag ccgcgctcat ccctagatac 2940
tatccattgt actaagtaat cctccttagt tttggatagc ctcaagttgt ggttgcgggc 3000
ttcttgctg aattcatggc cattaagttg atctcggagt gtacttcgcg ggacattaaa 3060
aaccgccact gcttgacgct gagacgtgat ttcgccattt ttcaacgcgt ttattgcaag 3120
ttggagtctg ccttcttgct caactaattc ttgacgcggt cggagcttat ttcgtggcat 3180
ggtggatgat caaagagggt tgggaatacgg ggagattttg ggtgggggtgg acggatgact 3240
gtgggtggac ggctgacttg ataattacgt taaggccatg catgacacat ggttgggtgtg 3300
ggaaacctag gtggtgttat aatatctgcg tagtcactgt aatggagca gagatgacgg 3360
ctcaacagtt tattagcgcc gctacaaaa gtctgggact gtcagtcacc cgttctttca 3420
ctcactcacg ggatgaatga acagtcagtc cacccaagcc cccacgaccc gccagaaca 3480
aagagacgga atgtccccga tcggggagca gcgccgacac ataaatcca ccatcctccc 3540
cgttcccgt cccccgaac atgacagtag tgccgtctgg tctgccacg agttctcccc 3600
aacatcggca ctttcatgg caagccaaga tcttgacgt caccaaggcg ccggttctaa 3660
tgtttccgtc gtccgatctc gtggggctag cgctgcgag aattgccgt cccgaaagac 3720
caagtgcgat aaccggcgcc ccagttgcgg attttgtttg aagcgtcgtg tcccttgtgt 3780
ataccaggat gacaacaatg ccgggtgaga attcgcagtc gacccccagc attcactgag 3840
cgatctgcct aacgtagcca gcagattgat aacaggcgcg gacatcctcc aagcgtcaa 3900
ccgggtggcg aacctgattg aggtcaaca gagagaccaa cggcggcagc agcagctgct 3960
gctgcagggg atgccatgtg catcttgtgg gtctcgctcg acgcctgctt ggggtccgac 4020
ttcacaatcc tgggtctcgt cagcttgag ccaaccagac aatgctaata atctagggcc 4080
aggccacccg tggccacgcg agaccgttcg acctcaagg gtcgaatcgg tctcggtctg 4140
gcaaataattg gccttgaatc ttccaccgtc tcggtgtctc tttgcacagc cgggtggcca 4200
ggccgatcag ccgtcctcgc tgctgatat gagctattcc cagctctcgc gtctggagtc 4260
gaagtacatt gaagttcttc atacaaagaa tccgattcta gatctgaatg aactacatcg 4320
catggtgctt cacgtcgcgg agaatgggcc ggattggtcc acacgaacct gcttggtagc 4380
cctggtctgc gccattgccg tcctttctga ggcttatcca gggactatca cgagatctgc 4440

ggcgagccca acgccttcac tggatccgga cgatgagagc ggcgccgacg tcaagttgtc 4500
 gctgcagttt tggaacattg ctctgaaacg tcttggtac gcaatgcgtg agaacagtgt 4560
 tgaggctgtt caaaccttg tgctagcagg aatctggtac atgcatcgaa tggaacctt 4620
 ggaagcctgg aaacacttca acctcgccgg cgcagcctgg aacacctga ggttaactcg 4680
 attcccagtg gttgatctga tagacaacac cgatacgacg cccaacgagc tcactatatt 4740
 acaagcgctc tacttcaacta tctggaagtc ggattgcgaa ctgcgactgg agttgccggt 4800
 gccaggcccc cctctcatca acagcacgga attcccgttg gcgtttcccc agccgcccag 4860
 gcttggttcg caaccgtcga cgcccgatgc gtcagagagt gagagaagtt ggtattatta 4920
 tctcacagag attgcagcgc gacatctgct caaccgtttg gtgcaaatga actcggagtg 4980
 tgccgacacg ccgacggaga ggcaggtgac ccgtctggtc agccatgcgg agatgatgca 5040
 ggctcaaata tccgactggt atacttcgtt accatccatc tttcattttg ccatccccga 5100
 tggctatgat gctgatttcc catctgatcc tatgatattt gttcttcggc atcggtatatt 5160
 taccctccgg gagctcgttg cgagacctt tgtccggctc ttggttgatg ggctacttga 5220
 cggaatggat cctttgatcc gtgtccgagc gcggtcattc gcgtcagagt gcatgcaatt 5280
 ctgtatgctc aaactgtccc aaaccgtggc ataccgtcat caaggaaact ggtatctgct 5340
 gcgatccatg acgacttcgt cattgatcct ggccgcccgtt cacctggcac aatgccgact 5400
 acgggagggc gaagctgccg gcgccacccc accatcagag aacctgatgc cgccagaagc 5460
 gtggatatcg cgagtcaggg atgctgtgga gtcagcccag ccatttttcg aggaaacgag 5520
 cggtggcgct tcgaatatga agcagatgat cttggccgca ttaggagctg ctcaacaacg 5580
 ttcggcggtg tgcggttaga ggagctatgg aaaagaagtg acttaataca attggctacc 5640
 attggccacc gttcttgctc gggctttcct actcctgtac catcggggac tgtccccgat 5700
 ggatgatgga tccctgtctg gggctctgag aacggactca catgtggcca gggcttgctt 5760
 cgttatgagc tggaccattg agttggtgaa tgtaggtcag ccgccagtgc gacaatagac 5820
 aattactata ttaactaccg aagccgaatt cgagggttg gtctgcttca cctcaatgat 5880
 aattttcacc tcaacgataa atttgaagct attcagaata ttatacaaca acgccttgcg 5940
 aatcccatc aaaagtcgct aatgattatc ttaccttcc tggctatctt atggttcaat 6000
 cagaatttct ttatctgccc tgcgttggcg agaaattgcg tcgtttagct cgcgcgcgct 6060

ttgcctgacg aagaaactga cgccttttctt cctcgctcag atattggata tagcgattag 6120
 cgtcttctgc atctattggg ccagtttctg gaagcctttt cattgattat attgcgggct 6180
 gaggcgctcg gtagcgaaga aatagctgta aaacatctcg aaattaacca gctagttccg 6240
 acgtccgtaa agcgctttta aagacgcggg ccacacggcg tttaaagctt tgatgaagct 6300
 ctggactatt atcaatgtac tctcgcgctt ttgcactact tcgacgaagt cctcgtttag 6360
 tagatggcgg caatactgag ctagatggcg gcgggtggcg ggtatatatc tcaagctcag 6420
 gtgtaggact ttttttcttt tgcagcggcc ccagaagctc tacagaattg aatggataga 6480
 ggctcgctt ttttaaagta tctcgaattg tccgcgcttt gaaagtttgc ttgcgtacgt 6540
 ctggggcttc ctttaaaaaa gcacctttgt cgtcggcttc cacactcagc ccagcaagaa 6600
 aattgttcca ctttcgatag tagtatgtat acacttgaaa ttgctggcca tcgagcattt 6660
 gaatgagatg tgtagtatga gatggaaagc agtacagaat tatagagttc tgcttaccga 6720
 actctaggaa ttcgtacgtt aggtgggaaa ccatggccat caaaaagtag caatcggggc 6780
 tcatttttct gctgaagacg gggtcgtgta tagcgatcga aatgatgaat ctatcaaagc 6840
 caattgaatc ggtagtatag ctttcaggcg ataaagctat acggtagttg ccaggatatc 6900
 ctgaatcgta ccatagctcc atattgnaag ggtgccttta aagatgaaac aaggcggtag 6960
 aattaaanc cgtctgcagc gatacattct atcccactgg gccccgggaa caatagagtc 7020
 gtggagttag ggtctaattg ctttgtagtg cacaattttc ggccaaagcg aatggttctg 7080
 ttggctcttg ggcgaagtgt tctgttgtag ccagtcggcc aatcctgctc aggatttacc 7140
 aggttatgga gacagtactt caatctaagt aggcttattt tcaagcaatt ccgagcagaa 7200
 actaggggtg ggtgctgagc caaagtaggt tagggttggt agtatggttt ggacaggaga 7260
 tcagcgatgg ctgtacgtat agatagtatt ttaacaacaa aagcaaaggc actggtcagt 7320
 gtcagattta gttaggggaa cctaacctct tttgaatctc tctatatctg tcttagactt 7380
 gttgaaccac gggttggggc gggttctcag gcctagctga tccgcccacg cggttttttg 7440
 ggggggttac ctgaacagta aaccgccccat gggtttagca aataattcta acccaacct 7500
 aataacccaa aataaccag ttatgcatat cattacttta ataagcagtg atctacatag 7560
 ttaataaaat actgtattta aatactgtat tataaactat ctaagtaaga aatgtaatc 7620
 taaatacagt aatataccta ttagatatc ttggcaaccc agcggggtgc tccgccgggc 7680

tttggggcag ccaaaaatat ccaaaaccca atggataatt agaaggtcta acccaaccca 7740
 tttcttggcg ggtcggggcg gggtggggcg gggttcgtgg gttgggttta acaagtctag 7800
 taatggatac cactgctatc cagtcgccag tatagcatat tagttgaatt ctaacaatct 7860
 taaactatatt attgcttctt gtagctatatt ttaatggcag gctatagtta taagttgaat 7920
 atttcagcca agaatataga attcttatca aattctaata ttatagagtc tgattacatt 7980
 gaaggctgta gctcggtaat gtatagtggg aatatatata tatctaagat gtaacaggca 8040
 tgtattcttt attattcaca agatgttatg gggtcctcgt acgaagaacc ctttttgtca 8100
 ggactcggcc aatgggaggc ctcgtagtag cgggccctcg cttaacgaga tccctatttc 8160
 taccacgca cactggacac acctttcttt tccttaacaa acccttcttg tatatacggc 8220
 aggatatagc ttagaacaag catatcatcc ccttacacaa gatcatgcta caccatcaat 8280
 tttttttgat tatactgcat attgttatgt tatttttagct atatagattt tgttatccta 8340
 ctctaaataa gaaaatacct taaactcatg gtgttatata tagttttgtt tataacagaa 8400
 aatttgatgg tgcagattac cctcaatgca gataatctac actgcataaa ggataaatct 8460
 aactatgatt agtttagcag cagatgtaat ctaactatat taggtatagt attgcaaaat 8520
 gcggattttg tgggtcggac tattctaaat cttgcagggt gcagtgcagt gcaggttgtt 8580
 tttctataac ccgcaaacc gcgcggttg atttctaacc ctgcggttg tacccaacc 8640
 gcaccgagtg catccctacc caaataaacc cagctatgca tatcattact ttaataagca 8700
 gtgatctaca tagttaataa aatagtgtat ttaaatactg tattataaac catctatgta 8760
 agaaaatgta atctaaatac agtaatacac ctattcagat atcttggcaa ccagcgggt 8820
 tcgtccgccg ggctttgggg cagccaaaaa tatccaaaac ccaatggata attagaaggt 8880
 ctaacccaac ccatttcttg gcgggtttcg tgggttgggt tgaacaagtc tagatgcagc 8940
 ttccttctac ctttccct ttgagcattc ataacacttt ctattagtga caagttaaga 9000
 tgattaatgc gggttgtaag cccatcagcc tgctgcctat gatgtacatt tttagcggct 9060
 gtggagagcc ctgcaatgaa gggtgctaag gagtttgtaa ttgtgaaatc agagatatta 9120
 gccagatcac agcctagaag ggtagggttg ctaggcatat cgtgaatgca ggggaggata 9180
 tgggtatatg ttaggggtgct aggcaggcca gaaataggtt tccatgactt ttgatgtcaa 9240
 accaggcaaa tttaaacgtc ccagatttag gattgatgat ggcttatggc ttgtggccag 9300

cccaaatcca gtgagcgacc aaaggagatg ggaaatccga tctaatacgc ggttatgaca 9360
 agtttcatat gcttgacaga ggcatcaaac gttccagccg cacgccacgg gccgctgaaa 9420
 taaccaggca tactgacaac ccgcggtagc agagaagttc agaatcaata agttactatg 9480
 gacaactgtg catgagcatc tataaagatt tagtggatc ctgcataccg catcgccaag 9540
 gagtcagagt ataattcgcc attaccacta gcaccaattc tgtgtaattg tccaggcgac 9600
 ggatctcgct gtcctgtat ataagttgag acaatagtat catataaaca cacctggctg 9660
 gtgagcatgc ttgacggatt gagagcatta acaatgcgct ttcagcatat caaagttgca 9720
 gcatcatgac caaaacgccg ctgtgataag gggcagtagc ttatcccatg aacctataaa 9780
 ttccttgggc tttttggtta tgttgaagaa ctgaattaaa gcgcccagcc ggtcatgggt 9840
 gtacattccc aggttgctgg ggactgaata ggttaccgtg gttgtagtat atagacacct 9900
 aagtaaacc actagtctac ccaacttcag tagccagtg aaattccctt gcctctccat 9960
 ccaactgact cttcccagc ccatccaact cagccccaat aggttccctt gcaggcagtt 10020
 ccgctagatc ttcattccatg ttcaccaatc ttttcttgc aatagccaag ccatcaagct 10080
 ccggcctgaa ttcacggca tgaagctgag cttatcatc aaagctatcg cctgccgcac 10140
 cgatctcttc cgtgccttgt ctctttctcc gccgacgtat taaagcccac gctagcacgg 10200
 atcctacaag gagtgcaaaa accggtacga tcacagcagg agcaataata ttgatatccg 10260
 atgtgtcgga ggagggtaga tcttctgtgc ctgtcccacc ctcgttagaa aaactccgat 10320
 cctcgcccc tgcagtggct gtcggcccaa ccatgctcgt actacttgca gtcacatcac 10380
 ctgtcgcggt ggcactagtc aactctggaa aatcacccgt atacccaac gacgacaaag 10440
 aagcctgcaa ctgagactga ctagacgaga gggacgagta cgaggcaagc agcgagtcaa 10500
 ttccttcac gagtgtgaca ttgctgttac cgctgcctcc gccctgttcg tcgcaatacg 10560
 cgatgaactc attgagttca gcagtgggtc tgccagatga tgcgctggcg gtggagttcg 10620
 aggaaggcga gttgacgaag agctcgatac attgcctgca ttgatcgacc aggtctgaaa 10680
 aagtggaacc gtcggcacag attgcggcca tcttgctct tccagccgcc tcgaggaagg 10740
 cgccatctat acaagaagtg gttttaacat tttttgggt ttattagtct gttgggctgg 10800
 agagctccag acctcttatg gtctggtctt gtagttgaag ggcggaaata gaagcgagcg 10860
 gtggacgtac tgcaggtttc atagcaaaca ttggggatct cttgcgaatc caagtctgtg 10920

ctggaggagg ttgtttctct gcggtcttct ctgcgcaggg caaaaatgtt aaagaaaact 10980
 ccaactggta tcggggacga cattgcgggc gacggctgta tctgaactga tacagcctga 11040
 aaaagaatta taggaagagt caccaagaaa tcttgaacat aaggaaagac aaagatggga 11100
 gcctgacaag actgagcgat tgtagcactt aaatgcaacc ggacgagata acaaggctgt 11160
 aagaagcaaa aataagaccg ctgtcaaate aatgcacgtc gcttatgcag aagaaaagag 11220
 gggtttgccg tagggttcct gtagtataga tgataggatc aatcgcttag tctctcctca 11280
 agtatctacc gcactctagc ctaatggacc aacgtatatg ttcaaacaag gggatgggag 11340
 gaggacgaaa gggagcatca gatcgccgct accgacttaa ctattcggag gtgaactttg 11400
 gctcgatcaa acctactttg tggctatcat tcaggaagat ggctgctcgt gggttcatgc 11460
 gtgatcggtg tagagccatc gcagcagcag caactgtgga tgtgaagtgt cgacattacc 11520
 ctgcactaat ctatccactc ggtgtctggc aagcgaacaa gcatttgact atgcacagat 11580
 caacgaattc agtggttaatg cctactgaca cactgtcaat caacgcgtct taacctccag 11640
 cccttaagtg accagccaaa ttggcaatct ggaagcgtcc tttgcttctt atatcgtagt 11700
 gctcagcctt gtcaacacat atgccttacc tctgtcccta tagcagtcca acatgctatc 11760
 ctgcggcaga cactgcgatg ggtaaatcgt taaaccacta ctaaaaatag tcgtaggggt 11820
 tcgtccagaa acagccagac tcaacccctt aattccaaga tcccagggtt cccctcggtc 11880
 tctgctaaac aggcccatca ggccaaggta ggaaactcta atttgaaagc cctgagctct 11940
 gcaactagcc tacctaggcg tgtcaggata aacattgcta ccctcacatc cctcagatgc 12000
 gctttattta tatcttgaac ttttccatta ctgcttacat gtttcagagc acccaaagcg 12060
 gaaagtcggt tatatactgg gtactaacgg tatgaacagt tgtgtgcttt gagagtatct 12120
 cagtactggt agtaggaaat acgtctgatt gcattactct aggacttagg atagcaatat 12180
 tcaatgctaa tcttactctg ctgcaggctg ctgaacagag cttaggcgtg ttgccagcct 12240
 catatgtctc ctcaattgct tccttttctt tgtgcttcat gggagttgaa ttctcagagg 12300
 accatcttca tcacctgcc tgcgtacgat gtaacctcct ctgctctgtg tccaagaagg 12360
 aaagatataa cctcctggat tctcaagtct gtcgctaact gaaacgcaga cctcttttgt 12420
 ctagaccggc tctccacaaa cacctcttag cgtcattaac ttcgacaccg taattcatca 12480
 gcagtcgaac caggtagcca tggccggcat tgactcctcg gagaaggggc agaactatgc 12540

tgtaatcctg caggtagatg acaggttggg cagcctggta atctaagcaa ccaaggtaga 12600
 tgcgccccat gtgccaacaa gaatctcgta aagcaaccat tagtctgttc cgtccgcgct 12660
 ttaagccagg gcgagtgtca ttttcaggca attacttccg cgtactagca gagaagcaat 12720
 cctctacttc ctgctaaaga tcgcccgtc caaggcgcat ttcgttctgc acctggatgt 12780
 gaatggaatt tcgcttgaga aggtatagcc aagcaccgga cctgaaacaa gactcgcatt 12840
 tgtcgcaaac acgggacaat tttcagcaca cagcgtgct agaacaagat cccgaggatc 12900
 cgtttgtggg tgcgacatcc atcaaaccat ctggatagct gattctcgcg agtcatatt 12960
 attttctata ggcagtacta cgcggggacc tctgtatgat ggtatttcat gcaaactttc 13020
 cgcataaagc aggagtgttt cctacagttc gcgactctca caactggttt ctgcatcgaa 13080
 gaccaaggca ggatccgaac tcagttccag tagaaccatt tagcgatgac tcccggatga 13140
 ctacacccac cgactatgac gagagcacag gtgcttgcaa gccgttataa tgcgccagac 13200
 aaagtcaggg acggatatgc aaggccgcgt cggcagggga ggcacatgtg tataaaccaa 13260
 tcacggcacg ggactgggag acttgggtgg gatttaaaag agatacccca tgacgctgca 13320
 aaggatttac agttgtcacc tgagcttgct gcgatagaga aggagcagtc catgctgtgt 13380
 tggacgagag agatgctgca agcagtgagg gattcaagca ggaggcctaa gacaacggca 13440
 gacttgagag aaggcaatgt aatagactaa tgaatgcata aacatgtctc gaaaatcaag 13500
 ctcgttcttc cggtgtggt tatgtcaatc ttctggtaac ctgcagtcgt gttcaacttg 13560
 tcatgctcat gatttatttg catctttatc tgaccctgaa cgcggctgtt cgaaagtggc 13620
 gtcctgagta ggtacttgag taacatcgtc gcataactgg acaccaagtg atggtactct 13680
 tctgatgagt cctgccctt gtttaacgt aaaagctcgg tggcaatgga agacgccgga 13740
 ttgccgtgca aggctgccgt aaggagctat ttgcagctga gggttcctga aagcagtcta 13800
 acagcagcaa aacctactgg ggtccaaagc cctaaatcac aattgtgtca caaataccgc 13860
 tctagcgcat cccagaccct ttacaagggt gtaacgctag ccatgtagta gtccaaaagc 13920
 tctactggat atgggagcta agattcctgg tggcttgca aagaaccggc gaaaaataa 13980
 aaatattcaa caccatctgg agcttgcgt cctgtaatac ctctccagtc ggcagttctc 14040
 tcctttctcc ttctccactg ggctatttat ttctgtgct tccatttcca cagctcacgt 14100
 ctccaatctc agcatgtgtc gtgtcactcg tgtgtcctgg ctctcgcttg gccaaagact 14160

aaaatcgatt tgctttctccc gcgcgaaggg acattcgtcc caatgcactc gatgccagtg 14220
 gtattcgctg cccagaaccc ctctgctgtc aaggagctcc acgcaaccat ccaatgtggg 14280
 gtgcgcccac aagggtgctgg tgctaacaag aaagtgtgga gctattcaga cgccctcgcc 14340
 aacgtcccag ccaacgcgac cacctacttc agctccacca gccttggaac tttgctgaac 14400
 acaaccggca gctgggagtt cttctggacc tatactggct gaactgatct cagccgaata 14460
 acccagcgta ctacgggtacc aagtattcgt ggggttaatga agccgtcggc ctcaatctgg 14520
 acgccgttca tgacgggttc tacttggtat gctactttga tcaactgtct ataccttttt 14580
 tttcgtcacc taaggtaggg gctacctgtc ttcgtacct atccatcact tcatttgtgt 14640
 tcttcctatc gtcttttatg gatttatttg ttttgctct cccctttact ttattcagta 14700
 tctttcctta aatctcataa tcttctctcc tatggcttac tcccttactt agatcgttta 14760
 cttcactctt tactacctta gttcagtcct ctgtttcctt ctactaattc attctgttct 14820
 cttaatcctt ttatcttctt cttttccttt tatttaacct tatttatctt cttggacccc 14880
 cccaagggct tttgtagggg ggcggggggc 14909

<210> 3574
 <211> 11615
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3574

tgctaccttt tgccttatct gcttccttgc atgcatcaca ttggattgaa taaccctgct 60
 cacgaacgta ttggttggcg tgctgactgg tttatctata actagttagc aactgggttt 120
 aaagcgttgt agaataatca tacctttccg tcgcgacggc gggggatctc aggtttccct 180
 accccatcct cttgtcttgc atcataggct tcgagcacgg ctttgtaaaa tactgaacta 240
 gttaggaact agttctggca acaacaatct tgctgtaatc accaatcgca tcacctcct 300
 cttttgcagt aggacggcca cctccttctt tctctaagag atcgaattta tccacgtgcg 360
 cttttctgat gtgcttcttg aggttgtttg tgttcagaaa ccgagtctgg aactagttag 420
 taactagttg taggcgaaca gcaacagcag cagtacggaa ttggtgcatg caggggcgcg 480
 gcagtaaate tctccgacat gtggaatcag gtagccgtga ttctaagaag aattagttag 540
 caactagttt aatcatatca ctcatggtgg tttcttaaac tggttcgcaa gctcacatct 600

gccttgaagt	caggaaggtc	taattcagct	ttcgaaatct	tagtatatcg	aatgtaatta	660
gggtctttct	tgactttggc	cattatgggg	gcacggggat	tagaatatgg	tgtagcatg	720
tggtattcaa	gttacgtgcg	ttgtattgac	ctcaaacgac	cgcggtcgct	ttaagcgagg	780
tcaggtgagc	gcacggaccc	tcaaggtcgc	ctgaggtttt	agcgcggtcg	cctgagctgt	840
agtcactatg	tatgccccga	caagactcaa	gcgtcacatg	acaaggtcac	atgatgtact	900
agctttagat	agcttcggat	cacacatcct	aatcggatca	tcagagaacc	cgccgaaaaa	960
ccacgacgag	gggagaacag	ggccccctac	tgctctaata	actgatctct	tacactttgc	1020
tcacgatca	ttccctccac	cccatggagg	tggatgactc	ccccccaggc	ggagcccgtc	1080
cggggactcc	gtccttgggt	gaaaactctg	aacccccctc	aggacctacc	accccagacc	1140
ccctaccccg	gaactccctg	aagagaaggg	ccttattctc	cctacagaag	actcccactg	1200
cagctccggt	ccctgtatcc	tatttgctgc	aagccccatc	aatctgcaag	caggtcagca	1260
tggtagcaga	caaccagcta	gtccttctta	atgattagaa	actagcaata	acctctcttg	1320
ctaaagctct	agatctaact	gtctcctctc	tacagggccg	ccaagagac	ctggcccagg	1380
ggcttgacgc	cagatttggt	tccttagcaa	aacaggactc	ccctcagctg	attcctctga	1440
taacagcagc	tgcaccccc	cagccatcca	ggcagataga	acagccaaac	caacctccta	1500
ctcctgaagc	ttgcaaaggc	ccctgaaga	ggcaaactc	gcagcctaca	acctgggcat	1560
ccctgacagc	cccaagagct	agtcagggga	actggcaaac	tattgcccc	gaactgtga	1620
tgcaagccaa	gcaaccagca	caaaaaagc	tgaagcagcc	aaacaagact	gaccactgca	1680
tcttcctctg	cctcccggcc	tcctctagcc	tctgggctat	tagaccacat	ggcatccagg	1740
tcacccttgc	agggaaagtt	ccagacagga	ttgcacaggt	gcaagtaata	tcaacaggat	1800
atgtaattac	tacaactgaa	caaggcaagg	tcttcttact	atcagagaag	gctgcaagcc	1860
tagctgggga	tggatacttt	gaaatactaa	cagagtatca	ccagggtatt	gtcccctgga	1920
tcccaaaaaca	actctggtcc	ctggatagat	agatagatac	tacaattaca	gatatcagca	1980
atgaagcaga	gcgcattact	ggtattaaac	tactcatggc	caaactctca	aagcaccacg	2040
tagagagggg	ctctatcaca	gcagtcatag	cctttccaaa	aaggctacaa	cacccttgc	2100
aactctttgg	cctgtccggc	ctatcaaggc	ccaccgccc	caagcaaagg	cctttgcaat	2160
gcaccgatg	ccactgcttc	catgatacac	gagcctgctg	ctccagcgaa	tgctgtatct	2220

cctgcagatc ctcaaaacag gaacacaact accgtgtgca gtgtattaac tgctgcggcc 2280
cgcatgcagc agacttccaa aaatgccag ccagacccca tgtccagagg aacactgtca 2340
cctgcctctc aaaagatgct ctagctgcta tctgcaaggc aggccggctt gccttccaac 2400
aggagcagaa gaaagcagaa gaaagctcta aacaataaac agataatacc tacactacaa 2460
accagcctac aagacagctc acccaggagc tcttaaacca aaccctgacc tcccctgaac 2520
tatgaaaata ctacaagcta atataggaag ggggggcgct gtacatgacc tgctactctc 2580
ctttgaagca gatattattc ttgtccaaga accttggaca aatacagcaa aatacctaac 2640
caagacctac ccatgatatc agctgttcag ccccccagacc tgatagactg ctaggccag 2700
aactctaata tatatatata ataggatctc ctagecctatt ccttctaga acctatttct 2760
ctagatatta ctataatcta tatagcaggc cttactatta tcaatatcta ttagcctcct 2820
aataatctag ttgcccctgc tgggtgctggc ttaataccct ctatactttc tatacttcta 2880
ggatatactc tgccagagaa tactatccta gtaggagact ttaatatcta gtacctattc 2940
tagcagccag atactaagtc ttatactgtc atacctggta caacaggact attagactgg 3000
cttgatacct acaagctaga actttgcctt gagccaggca cccccaccta tagaccaaac 3060
atcctagacc ttgtcttctc taacctacta ctaagggccc tagtagaaga ctatctaaag 3120
actccaagtg accatgcaat aattagaata atactggaat agaaagagcc cctgcctata 3180
tacaagctta gctctactaa ctgggagaaa gccagagtac tggcaagccc gcctgaccta 3240
accctactaa ttaacctact agctgagcaa ctgggtccaga taccctaact tgcaatacaa 3300
ggtatatcaa gatataatac tcatagactc cccaggaccc tatagtagac tccagaacta 3360
atagttatac tataccaaat aagatagtaa taaaatcctg attataaaca gctctggaag 3420
gctattatac aggcaaaggc tgaatactgg aagtagtaga ttgaacaagc tacagcacct 3480
acagatatat ttaaacttgc taagtagatt aggcatccag actagcttgc tgcccctccc 3540
ctaaatatac aaggggctca gggttactacc ctacagggca aagcaaagtc ctttcttagt 3600
cacctcctag agaagggggc cctgcttcca aatcagatag aagagggacc ccctaataag 3660
cccctgggccc ccctgtacct gccacaacaaa gagcactgct aggetgccct ctgtgcctta 3720
cctgtcacag ggccaggtcg tcgctgacc cctatccctc aattcccacg taacggggac 3780
gggagcctta ccggtgccta tccgccagta ggaatatgag ggatcgccag agccgtaccg 3840

gtccgccagt aggaatatga gggatcgcca gagccgtacc ggtccgccag taggaattca 3900

agggacgagc cgtactggga tcaaccata tattgttgca gtgggatgcg gtggtatacg 3960

caatcaccaa tgcgtcactg taatggtatt gcttggagat gccgaactaa ccacactgga 4020

ggttatatga agggcctcct gatgccatgt acagagagat ctccaagcaa tcctttcaat 4080

attcttcagt accaatcaag ctccctccat tggataatta tcgttgatag tcatcgcttc 4140

gttgtagcta gagaaccccg acgttagacc acgtcttaca cacatctcaa tctgtcaaag 4200

cggaatgatg tcataactat cggatatttg tatataatgt actagccagc cttgaagggg 4260

ttggctaaga gttagtTTTT gaaaaaaaaa aaataaataa aaaaaaaaaa ataaaaaaaa 4320

gtgacaggta gcctcatgtt attgataacc gttgattcca tggtgacttt ctgccgtacc 4380

taatcaatcc tccatcctcg acaccgctca catagggcgt tagcgtgtat cttgttatgg 4440

gttctcgtc cgaagaaccc tttttgtcag gactcggcca atgggaggcc tcgtactagc 4500

gggcctcgc ttaacgagat ccctatttct acccagcac actggacaca cctttctctt 4560

ccttaacaaa cccttcttgt atatacggca ggatatagct tagaacaagc atatcatccc 4620

cttacatatc tggggaatta tctgatcctc gacgaacaca acaacaaaag ttcacggggc 4680

tgcattatgg aacattcttt gaaagaggat gtgcgcgggg aggtgggatt gcgaggaggg 4740

cataagggtga aaatacaggg taagcttctt gccgtacgga tgaaccatcc aagtcctaag 4800

agctattcct tccattgcac gccgtccgac agccgcaatt ttctgcacaa tgtcatctca 4860

gcactggagc tgggtttctt ttatgaaagg gcagataaaa tggtaacagg ctctgctggt 4920

gcagctgtgc ctgggcctgc ccacactgtc acgtactac ccagttacc aacgtcatac 4980

aggatgttca agcaaactgt acgcagatcg tatatgtaga gatatagcag ctacgagggtg 5040

aagtgatcta gcctaactcat attcaaggta caccagtctt catttatgtt gcgaatctca 5100

agttgtgttc ggttacgcag gcaatgtatt tatttacgaa gaggaaccta cttcatgcgg 5160

agcgcacgt agatatcccc aataacagta cccatctctc ggtcaacaac cagtcctca 5220

ggcactgctc tcctcttcgt cgagttagat gtaatcagtg ctaactcttc ccttgccatc 5280

tcgactaaca tccgttagaa ggccgtttta attttaaccc gtccttgaaa gagaaccaa 5340

actcaccatg acagtaaaca gccgccctct tcccgctcgc catagcatga ggcacattag 5400

tactgttgtc gctattcgcg tcgccaaccc cccaaacgcc tttcatgctg gttctcagtc 5460

caggcgctgt tgtatcgatc ttaccaccca gtatcctcaa acccatctga gcggggagtg 5520
tagacgcctg ataagtacca taatttgcca taattgctcc acactcttcg aaagtgccat 5580
cgtccatgta caccctgaag atatcgagtt cctttcgaat cacttcctcc tgaacctcac 5640
cacgctcttg tactctcgtg atgttctgga tagtcctatc gttgattgta acattgtatg 5700
cctcaaaaac agccctccag ttcgaatcct tcttgtaaat ccgctcgagc tgcgctgtat 5760
catttgagtg gccgtttgaa aggaccctaa tctggcgatt tagcgtcggg tatagctcac 5820
gcacgctgtc gtacgagtcg gagaaattcc caataacccc aacgggctgg tcgcatgct 5880
caaagccgtc gcaccacgga caccagtaga ggcccttgcc gaaggcctcg cggagtccgg 5940
gaacttggtc tggtagagcg tctttgacgc cgctgccaaag aattaccttg cggccggtgt 6000
agggtggtcc gttagcaagg gttgcggtga aggaagtggc ccgattggca gttccagtgg 6060
cgttgataga gacgacctg gtgtcaatga atgtggtaac attgtagaaa gatatttggg 6120
cacgggcagc ggcgcggaat tccgcagggt caacatctgg ttaattatat cagcgtgggg 6180
gctcgctgaa gactgtgcat agaaggaaag gtaggtaact cggaacatac gatcactccc 6240
aataacatcg tgcattgtcc tagttggctt gttgcggtat tccccggagt cgaagagcgc 6300
tatttttctt agaacacgag ctagaccgct ggcagcactg agcccggatg gccctccgcc 6360
gatgattaga acatcgtaact ggggtgtgaa ttgcgccatc gaacaggtaa ggataatgca 6420
gaaagtgagc agtgttctca aagccatagt cgtctgcaga gctgtatcag tgagaattgt 6480
agcacagggtg cccagtatga tatttttagag gccatagata tattagtaaa atagtcaggg 6540
ggcggcttcc taagcctctt acgaccaggc ctctcgcaaa tgcgtactaa gtcgtgacgt 6600
gccgtcattc ctcagtecta ccaaaaatat ataatgtaga gtcattaggt tgccgggagt 6660
gggaatgctg cggtagtctg ttgccattac tacaagaggg cagaatattg tcattgacgt 6720
aacaatatct acctcctcta atttgtcatt gttttaaaga gccatggttg tggacagtct 6780
gcaatgagcg gaaatcctac gttacacaag gctaagcttt gcggaagctt ctgggagatc 6840
cacaccagcg gcggctagct cggaactctt gcgccttatg aggtctgccg tgtatttgcg 6900
cgaaattctg gcttgtttcg aagtacggct atggatagaa agctggaatg aaccaaagga 6960
gtgggtgttt acctatattt agaatagggt atgtataaga actataattg gagagtaa 7020
gggtcaaac tctgcaatac ttcaagcgta tttccgggcc tcgctgctgc ctatcgagcg 7080

aagtagaaaa ttctaataat agatgccatg tgatacctca ctcaatcaat caaaattaac 7140
tcttcgtttt tcacataggt gcgccactga cgcaggggat tggagaactg caatattgac 7200
taggggtgca ctcggtgcgg tttgggtaca acccgagggg ttagaaatct gcccgcgcg 7260
gtttgcgggt tctagataac taaccgcac cgcaccacaa cccgcaagac ttataatatt 7320
ccgcaccaca aaatccgtat tttgtaataa tatacctaata acagctatat tagattagcc 7380
actaaactaa ctatagttag atttattctt tatgcagtgt ggattgcccg caccgcaccg 7440
ctgcgggttg cgggtgcgggt tgacattcct aatactgacg acggaacagc cacagcctga 7500
ctgacaaaaca aagccatctg tcgcccacga aagtggacgg ttcacattac ctggatgagg 7560
cttttcatca actctaattt ggactttttc attgcatctc atccctggga aggcgtttat 7620
cgcaaccag gccagtctat ctacgacgt gccaatgttgc tcatgacaag ttagttcag 7680
cggagacgtc aacgagggtc aagctggatc ggccatcaac gtgagcatga ttgttgatgt 7740
tggttatgtc gtatgcaaag agaggaaca tagctacatc aaagaccatc ttcgagcgca 7800
gtccacacc ccgtcgccg agtctgaatt ccatcagcta ttcctacagg atattatctc 7860
tgccatcca gttcatcat aactggagcc gaggtaacta tggaaatccg cctttgctg 7920
ataaccggc tgcgacgaat cggacaggat tgtacgtgaa tcattttctt ctcccatatg 7980
atctctcac atacttctt ggaccggtg agagagacaa ttatcagccc gatgaagaga 8040
ttcagcttg agcttgataa tgcgagcact ttgaccgccc caagagacgc gcttaagaat 8100
ctcttctgcc agaaaataga agcgataatg aaagtacccg caagcatcgt cgacgtgtgc 8160
gtgccgttgt ctgatctggg cctagattca atgctggctg tggagtttcg aacttggett 8220
atccaagacc tccaccaaga cctccatatt aacatccctg ttatggggac tacgggccta 8280
gactccattg cttcgctttg tgcgtcgcg tctcgtcaac gacttcccga tgtacaggat 8340
gagacaaagc acgagacaca cctaggtatg tttgctctc cattcgatac agctgttgct 8400
aaggctccgg aactcatatc ggtccttgct tcggcacgac gcttatcaga cttgcttttt 8460
ttacagagac ggggagcctc gaccccatcc aaacggtatg ccggtctcct gcagcacatt 8520
ctcgattcac acacatgccg attgcctctc atgatgacgt ctctgccact ttcattggact 8580
tgcccgcgg aaattggaga cttgtagagg gaagcacatt cgagcctgtt ctgctcacat 8640
gtaccccaga ccaccatata ctagtctgg gctggcatca tattataatg gacgtgatga 8700

gctggaatgt attcttgacc gatctcaaca acgtgtatat gatgcgtcct ttggcatctt 8760
gcgccgtatc gtacttggat tttttgcaag aacagaatcg tgtcatccaa agtggcgaga 8820
tggaaggcgc aatccagtac tatttgcaag agatgcagtc aataccagaa gcgataccac 8880
ttctcccat tgcaacgtcg ccgccggcct caccgtagaa gctacggcaa tcacaaaaaa 8940
cagtgtcaaa ccccgagcaga cgttcgccgc cggatcaaac gtaccagcca ggagtgtgga 9000
gttacacca tgcacttcta cttgggtcct tcttgccgc atgttttacg ttgaggacat 9060
ttgtatcggg ttacagata caggtcgagg cgatagaggt cacttcaacg gcacagtcgg 9120
ccacttcaca aatgttctgt ccatgagatt cagcgtcgac ctcaatgagc caatttccaa 9180
gcttctcagc aaagcaactg acacgactct gcgggcctac ggtcatgcaa acctgccgat 9240
tgatctgatt atcagccggc tgaatatgca tcaattcgat gactatccac ccctttccca 9300
agtggcattt aactaccgag tcaggggctt gttcaaatga gatctaggcc cttgccaact 9360
ggttctcacg cagtatgaag atgcacgcac tccatatgac ctgactccca atatggctat 9420
agactcaaat ggtgatagtc tgggtggaact tgtgtatcaa acgaccagct ccattcggcc 9480
gaggcaactg agaccatctt gaaaacttat taccatttag tcaatgatct gccaacgcac 9540
atacacgttt caatctgtga gagccagctt tctcgaag agggtttcaa gcaagttgta 9600
acgcttgccc aagggccaaag gttgcatcac gcgtggctag agacgcttcc tggaccggat 9660
cagccagatc tatcgatcaa caccagatgc tgtcgctgtc aaagatgagg agaagtcgct 9720
gtcatatcgt caatttattc agaaggcaaa ctctattgtg ttcattgtga taaacgcagg 9780
ggctggccca gagctcagaa tcgcagtgtc cctcgaaccg agcgccgaca cctacgtggc 9840
tctaatagct attctatata ctggaggggt ctttattccc ttagacaccg gtttaccatc 9900
ttctcggaat gagacaattc tcaaagcttg tgatcctcgg ttccttgta tgcatcatca 9960
cgctaccagc tacatgactg gtgacttaat gacagtagat atctctgatg ttctgttttc 10020
gcctgttcag ccaacggatt ttgaaagct tctactctt cagagtggtc tcgactggca 10080
ctccgaaagg catccgtctg tggcaggctg ggatcatgaa ctatgccgct agcaaaagtt 10140
gggtttaggg ttaggtccag tcaagattta gcagcggagc tcaacaggct ttgatatgtc 10200
cttgcccag gcattgattg catatgccaa tggcggcaca ctaatagttg ccggttcgaa 10260
cgcccgagga aatccccttg ctctctctaa attgatacgc gatgaacaaa ttgagctgac 10320

agtcgcaacc cccctctgaat acatgctaac ggctactcat ggcgctgagt atcttcgaca 10380
 ctggcgctcc tggcgccata actgttcggt ctgggttgca agctgtctcc gctcaactga 10440
 tggaccagct acgggcctta cacctgccgc tcgctactcc tacagactgc tatggcccta 10500
 cagagttctc ttgcgccaca acttaatgat atcccgggtc ccagtctcgg taccagtact 10560
 tcgtctctta atgggtccgt cggttccccg ttgcccaaca catctgtgta catcgttggt 10620
 tctcaaaactc gtgacattct tccgtttggt tttgccggcg agatctgtat cgggtggggcg 10680
 ggtgtggcac ttggcgacct agacccaaaa aaaataagga gaaatttgtc ggcgacccat 10740
 ttgctactgc cggggacata gcgagggggg ggaagaggat gtaccgaact ggtgatcgtg 10800
 gctgtctcct ggccgacagg tcaactcgtgt tcttaggaag aggagacggg gattcaatgg 10860
 tgaagcttcg tggcctgcgc atcgagctta atgaggttgc tcatgttggt cttgccgctt 10920
 cgcagggcaa tttggctgat gcaaccgtcg ctgtccgtgg agatttcgag tttctcgttg 10980
 ctcacgttat actttctcag catcatgagc ttgccattca gaacctaaga atcattctat 11040
 cttgactcag cctaccgca tacatgatac catttatgat tccctttgga tgtactacca 11100
 atgacgcaa acggcaagct cgatcgcaag gctctccgca cattgccatt acccgcgga 11160
 caaccattc gggaaaacag gatgaagact aagcatcccc ccttgaatgt cgcagaaggt 11220
 gaacttagcc gattgtggcg ccagattctt ggtgacgttg tcggtggagc ttcgatccaa 11280
 gcagaaacgg atttcttcgc tattggcgga agctcattgc agctggttcg cctacaaaac 11340
 gctctgcgcg agcgcatggg agtcgaggca tctcttcattg acatttatcg cttgagtagc 11400
 ctcgaaaaaa tggctgcaact tatgtgcgat gagaggggcc gcttggagtc tgatgccatt 11460
 gactggtcgg cggagacaga catacctcat gtgcagacgg ttattgagac agctgcggtc 11520
 agcaacgttt cagaccatca atttgaaatt actggtactt tgcgtcaaaa gaaggaagtc 11580
 gttttgactg gcgccaccgg gttcttggga tccga 11615

<210> 3575
 <211> 2130
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3575

aacattgaca attcgcggcc gcataatacg actcactata gggatctttg tttcattgct 60

taccattgtc tcaattggat tcttactaag tcccttgcac ttccgggttt cttcctgcac 120
ctccacgaat gatgccccca ttttaccatg catcggttct tattttccta tgtcaccggc 180
acttgctgca tctgcatcgc cgcataatcg cattccattc caactgagac gtgtcagact 240
gactcactct ttcatttgat gttttctcct gtcatcaact ggcgtttttg atgtttcatg 300
cctatttacc tagtttagcga ggagtttatg gcgttgtttc caactatgca aggagtaaac 360
gagcgagccg ccgcatgaga ctgaatatct aggtcatttg acacttttgt taccttgcac 420
tgcattactt tgcattccaca ctccaccatt tacagagtag ggtaatacaa tctcgcattc 480
ttgtcaccac gttctctggt cgaggggttg actctgcaaa atacaatctc aagatgaaac 540
aatgaaacac taaacgctga attgcaggtc tcaggctctg acatgacaga atgttccttg 600
actggaccgt agcacatact acgcatactg atggctctgc actccataga taacagggtc 660
gtctgatcaa cgcctttggt gttaccaga gtacttggtg tgtaagccga gcagcccaag 720
tatcatccct acgactctcc tatccaacat ggtaattctg tacaagttca aagatagaga 780
ctcaactgct tttctccttt tattatattt atatatttta aatttctttt cttttctttt 840
ttcttttttt tattttttaca ctgacgtatc tctagctcaa cataaacgaa ttgcctccgc 900
catccatgac gctgtcaccg atgtcacaat cctctatcta ctcacgagcg cattgcaggc 960
tacggcacgg cccagtcgc tatatgggtc agctccaagc ttcacgacat gtgcaacgga 1020
tcttatcttc cccacctcac tgattcccag ccaatccgtt cacactgagt cttcgtgagt 1080
ttggcagcgt gatttcaacc caagaagcaa ggggcatgca ctgagagccc gccctgaccc 1140
tacgcctaac ctgacttaag atcgacggat ggcgccaaaa aagggttaca gctcgtgatc 1200
ctattatgac acaatcactc cgtgcttgct gcagcgcacg atgaggggtc atgtgcagtt 1260
caccgctcct cgaatggtct cgagtcgtag acatgtcgga tatgacacct ccggcagcgg 1320
cagagcagta gatagagttt ctagtagtcg ggcgtagcga gcgtgattgt ttctcgcgtc 1380
caaactctat gcaaagaggg tagaatggac aagccttagc ctgcagatga ttcaccggcc 1440
gggactctgg gtttacctac gtatcagccg tttccactac caacctccag taccgtaccc 1500
tgattggctt ggctgacct gacctgacct aacctgatat gcaggtagat acgccatact 1560
tcgtaccctt cagttctcga aaatctattg acaagggtag gcaatagccg agggcgctag 1620
agccgagcgc ttgcatacat attacatttt gtacatgcta cctagccact atctgcagta 1680

tttgatttcg cgccctatct aaccagcccc gcacctgggc aacacagtag cggttgctgg 1740
 tctagtctag actgaaccgt tcattatgca ggtgctgtct tcgttgcaac cttttgcgaa 1800
 ttgctgactg caggctgcag gcagcactct acgttaaccc cgtcaactct ggaagtctga 1860
 gtgcggccgt tggaccaaga aaaccggggg gagtgagtcc ctgtaggccg ctgcaaggct 1920
 ggtggtactg ctagactgca gataatcctt tactagatcg gtagagtaca tgtgggtact 1980
 cgacctaggc gcgtgggtga cgagacggta aaatcgacgc acgcgcaggg gcccgccgcg 2040
 ctttccgtgc cctgtaaag caggcaggtg ccatactact ctggcttact gggcctgggt 2100
 aggtgatata cctctaccgt cctgaaaatt 2130

<210> 3576
 <211> 823
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3576
 tgctcctcag ttagacgtg accacggcgg cgggtaagga caccgtagat gccaccata 60
 gcctgctcag gaacctggat ctgcaggtt aagatgggct cgaggatacc aggctcagca 120
 aggagagtag cggcgtacaa gacacgacga gcagtaggga taatctgacc accaccacgg 180
 tggatggcat cagcgtgaag agtaacatca aggatgttga agcggatgga gcgcatgggc 240
 tcctcagcaa cgggaccctc acgagtggcc cactggaaac cggagacaac ggagtccttg 300
 atttcgttga ggtactggac ggccttggtc tggtaacga gcaagttggc gccagtgggtg 360
 tcgggaccga aacaccagat cttgcgagca tcggtgacat cccagttgta ctcatcggca 420
 aggatacgag cacgggcctt gaaatcgtcg cgggggttga tcttgccctc ctcaatggcc 480
 ttggagacct cctcatccag aggctcggca gtgaggtaga gacggttggtg cttgttgggc 540
 gacttggaca gagcagtcac gctggaagtg ccagaaacgg tctcacggta ggagacgacg 600
 gggtcggaga tacggagggg aacaccagcg tggctctcct caagatcctt caagcaaatt 660
 tcgaggtgga gctcaccagc accagcaacg acgtgctcac cggactcggt gatcatggtc 720
 aagacacaag gatcggactt ggagagacgc ttaagaccct caacaagctt gggcagatca 780
 ccagcgttct tcacctcgac ggagcgtgc acgacagggg aga 823

<210> 3577

<211> 1265
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3577

```

agtctcatga tcgcgtgacg attgagggga tgcccgggaa atccccagcg cggggtaccc 60
ctcgcgccga tcaccgcttg atccattggc tgaatagcat cagttccgca gtcgccagct 120
gggttgatca aaaaggcacg agtcggtcgc tggggactct tctcttaaac ttcctgttca 180
ctctctgttc cgtctcaatg gcacaatata ccaaaaccct aagccccgac tccctgcaag 240
acaaagtcct cgtcgtcaca ggtacgcgtc cagtgcctga tactgcatca ttactaacag 300
ggacaggcgg agcaaatggc ataggagcca gcctcgtcga gtatgctgtc cagaatggcg 360
catctgtgtg cttcggggac gtcagcgtac aggccggcga ggagattgca aggacggtga 420
aggccaacgc cccatcctct cctaccgcgc cagtctttgt cccaccgac gtgacaaaagt 480
acgactccgt tttggctctc ttcgacagag cgatggaggt cttcggacgc atcgaccatg 540
cccgcgcagg cgcagggatc gtcgagattg ggaacgtctt tgatccagcg ctggatatgc 600
agtctatccg cgaggcaagt caaccagtc ttcttaatat cggtagagga caggttataa 660
caaattgaaa atagcctcca cccacaaagg tcctcgatgt gaacctcctc ggctgtctgt 720
acacagctcg catcgcgagc gtgtatctgc gccagaaccg ctcagagcca gaagcagacc 780
gctcgattat cctcatttcc tcggaggcgg gctttaagga atccccgggc ctgtttgtct 840
accaagcctc caagcacggg gagatcggtc tcatgcgcgc actgcgactc tacctccacg 900
gcccggcatc cgcgcacaat atacgcgtaa actgtatttg tccgtggatg acgaccacgg 960
agatgggtcaa gggatatacag gagggatgga tcaaagctgg cttgccatga actccccatg 1020
gatgcagcag gaatacggca gctgactggg gagatgtaac tcttaatggg accctcgatg 1080
tatgttgagg gcgaacgggc atgggagatt gaggcgaata tggatcgctt tgagcctggc 1140
tggctatgga gaagagccca gtaagtcctt atgcataggg gcaagcagag aagtgggtat 1200
aggatggctc gcgcattgtg gatattgagg ggtaccagcg gtactatttc cggatngtct 1260
gtcca 1265
  
```

<210> 3578
 <211> 1495

<212> DNA
 <213> Aspergillus nidulans
 <400> 3578

tgtcattgat	ggcatcgaat	gacaatttga	taggattttg	gagtttggcc	aaggcaaccg	60
aggcttgatt	tggatctaata	gatgctcagg	tcagtccgac	aatcatttgt	agtccagcga	120
taagattcac	gagcgaacga	accggaggcg	atcttgtcec	tggtcgactg	aagtaagtct	180
attgcatcct	ggacactttg	aatgctttcg	gacgatttta	atcgctttga	caggcgctcg	240
tgttctttct	ggacgagatc	catcgtgaga	atagcaagcg	gatggtccca	cgcgagctc	300
agcaagtcca	acggttaccg	ctcgttcgtc	gctcgaagag	caagagccat	gtggagattc	360
cgagtaagag	acttcacacg	cttcagatat	caagtatcac	aagagctgat	agctatcggc	420
agcggctctc	aagataaatc	agtttgaagg	ttggaagtca	tgagtgcagc	tgagtgagga	480
gatagtcgct	ctccccatc	cgcaaatcat	ccaattacga	cataatatgt	cacgtggcag	540
tgctggatta	cccctcgtg	ttgttcagaa	gaacgaacag	agttcaatat	ggaatgggca	600
gacagctgag	aaaagtcaga	agctcaagtg	tccaattagt	tatgctgcct	tcaggtaaca	660
ctccagcgag	cagtatggaa	gccccagtat	gttccgatat	gtccatgaag	atgtggagga	720
aactacaggc	gcgccttggc	agactcccat	gatgcactta	tttgccttgc	gcatcaggct	780
gcaatttttt	accaaggcga	ccaatcacca	gtcaggaaag	tccagaagac	tctcgcttac	840
actagtgcaa	cgcttagtgt	cttggcggtat	acttataaga	ctgcggccgc	cgccagactt	900
ttataatttt	ttcttctttt	tttctccatc	ctggtgcaag	ggttttacac	gtgtcagtga	960
ggagccatcc	gagaccgtgt	ttttgctagt	tgaaaactac	ctagttgacc	gctccaattg	1020
gccttagggg	cggttgggaa	tttttgaaca	cttaaagaaa	ctgccctgac	ttcatcttgc	1080
acgaagtcag	tttgatgggc	tgcgcccatc	gttaggacga	tttgctattc	atcaccggca	1140
tccattatgg	atgctggttg	ggatgagaag	tttttaacat	cctatttttag	ggtatataca	1200
tttgtaatgg	gatgtattcg	ctgctggccg	ctgtgtggct	tctgctcata	acttgcccat	1260
tttccccatc	ccaacctgca	cttatgttct	accatgtctt	acattacagg	gcctaaatat	1320
caattacatt	ctgcctgagg	gcatcagaca	ttctgcttga	gggcatcagg	cctagcgttg	1380
aagagcagtt	cgcgctgaac	tgagcgcacc	ataaggttgt	tccacggcac	acaatagcga	1440
atctcttgga	aagcattcga	actttccgtt	tcttaataga	cacataagac	tcatg	1495

<210> 3579
 <211> 1202
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3579

```

ctgcatctgg tgcggttggg catgtttctg cttagcatat cctcaagcta tccttatgct 60
tttgtctttt gttgcggtt tttgtcaccg gtcgactgca ttggtttatt ctccggagtt 120
aggtttacta gaccgctggc gtaggactgt catcgataaa cggagtaaga attctcgaat 180
attatttaga ctccagttgt gaagagtggg taacaaatca tgcaccacaa tttcctattc 240
agccactaga ttcgactaag cgaggatcct gctctacgaa ctgaaatgca gtaccgcaac 300
cggctgacag tgcaggcatc ttcacacggc ctttcacac aaccgccctg ctcgctcctg 360
ctggaggatc ccagacaact tccgcaacag tcttcggggc ccgcggttggt ccggattcca 420
gaagcccagt gtcacttaca tcatataaca gcagaaggtc cgcaggatct ccgcatttca 480
ggcgcacgtc gaaagtcgat cgagggctag agttaatgcg ggacagcgag gatgaggaca 540
atccgatagc gtctcggggc cgcgtggaga cgcattcata tagcaattct gcgtcactca 600
ccgttccggc ttggtatata ccaacgccta aacaagcaag gcttaatggg tccgaggagc 660
cccatgggtg aaacgcgttt ccgacattat ttataaccaat cacggcgctc aggccgtgat 720
tctttatcat ggaagggatt ggcagtgcac ctcttgggtt ggccttgaac acattactgg 780
gtgctgcagc catatagcgg ccactagtgg gcagacctac gtcctttaca gggagaacat 840
ttttcatggt ttttttgggt caggcaaccc aagctatttt ttatgagaag agtgaataga 900
cctgttctag tgttctctac aaatctatgc ttgtcttacg ttccttgccct cacagccctc 960
ttaaatagaa gagggctact aagtgcctcc tatctatatt tcttatctat cttgcgctct 1020
atattttgtg atgttctcgt tccacacaaa ccgccttctt tctctctatc tattacatat 1080
atttttatta gttctatgta tgttttttat tttctttcac atatttctct ttactcttca 1140
gcgttatctt ctatttctgt ctgtcatcct ctacctaatt catatacgga ttcacatcac 1200
ta 1202

```

<210> 3580
 <211> 6730

<212> DNA
 <213> Aspergillus nidulans
 <400> 3580

```

gtcgttgcca gcgtgctttt tcttgccgct ttgactgaag ttgtgctttc aattccgcct 60
tccatgtcga aaggtgggtg agtcgagatt ctttgtaata ctgctgtaga aagtctgggt 120
tcaccacgct ggaattttctc attcgtgggt ctgacagaag ctgagcattg tattcctccg 180
aggtcatttc tgcctttgaa agcgcacctg gctgttgccg gctcagcgtc gtgccccatgt 240
cggtgcggtg gttttctgca gggtcaccgg gagtgatgac tggctccctc aggcgatctc 300
cctgccccatg aggtggaggg gagctgggtg aggtagcgga ctgagccggt tgatccaagg 360
aggagaagct gggaaagtca ccatagtctg attgtgtcgc atcgcttcgac tgcttactcg 420
cgggcgtctc aggaggatca ggggacctgt cgtttgtcgc ccgctcggat ggccactgtg 480
atgtataccg acttgctcgg ctttcatctt tataattggt ccggtggctg ttcgcttggc 540
tgacaatccg accaccttca aaattgagaa ctttctgtcc ctgacctcg tccaaaactc 600
gatacagatc ccaaggaagt aggcgtccag cgttgacact atccacaacc caggccggct 660
tgacaacgcg gtaccgccga aattcctccc tcttcttggg agtgagcgag ctgcgcgatta 720
tatgggttgc ggaggtcttg ccatcgagat actgaagaaa gccccacca tggcgcacga 780
tgagtttggt aaggtcttgc agcgatggtt gagtgtagcc gttcacgcat gctacaacag 840
aacggaatat ctgaggacag ttatcggccg cggcggagga tcgaatatca ttgtcgagat 900
tctgaagttt ggtcttcttg cggcgcatat agtcgctgaa cccaccaaac tttgaggctt 960
catattcttc gccttcttca tcgtcaaatg cgtctagttg cgagagagta ttagcgaagt 1020
catcccaaga cacaggtggc gttgagcgga cacttacggc tttgaattcg tttgcgcact 1080
gcgctcgaag ttgcgtctaa ccgagagccc atgaggggca aagcaagatc acctcatgac 1140
cgggggagct gaacagagta agacggccaa tataggtaac ggagtagcct cgagaaagag 1200
ataataagac atctttctcg cggatagatt cgctgcacg atggagcttc tgctaaaga 1260
tgcaggagac gcgacaacgg tacgaaatca tgtgataatc ttaagggcag taattggcgg 1320
tacatcaaag cgttgtaggt ccaagcttgc ttataggtg gaaagctcca acggtgaaaa 1380
aaaataaaac tgtggcaaaa atggagccgc ttttatagtt gcgattcgat ttgttttctc 1440
tcctcttctc tccttcttct cttaactggt cgagcttttt cttcagaata tttgtcgcgg 1500

```

ttgatttctt tcgtccggac ctgaaggcgc tccttttctt cgagatctat ccctctcttg 1560
 tcgcgcttta gacgatcggc ctttcgatcc atacagcggt gccctagcaa ttgcgtttca 1620
 tacatttctc ataattctta agcgccttca tgatgtctgg tgtccagccc gttgctgtct 1680
 atgctctccg ggtgcccgt gatgggtgcc tggtcctgc agttcccgat gctgctgcc 1740
 tggtttgta gtctgttata tgtatagaga aacatgctaa atagtggagc agttccgagt 1800
 gagcatggct gccattgacc ccgatgaggc ccccgagttt gatgatgaca gcagccgccg 1860
 tcttcgagcg actctgagga ttatccgcgc tccccggga ttggatgagg aagactcgga 1920
 cgacgattac gaagacgagg atgactccga agatgattcc gaggatgatg aggaagtcaa 1980
 cggaggtccc agcgataagg agaaggcccg gaaactaaag gaggccgcct acctgaagga 2040
 gttggaggat gctatgtcgg aagacgacga gtccgacgag ggtgaagagt tcgacctgaa 2100
 ggccgccatc tcaaagctcg tcaagggcaa ggctccagcc actgatgatg acgacgagga 2160
 tgctgaatct gatgaggggt tggatcttga tgagatgggt gtctgcactc tggaccccca 2220
 aagggtatgt tgcttctcac tttcctatgc gtacgcccgt actgacagta tatttgcaga 2280
 actaccagca gccccttgac attactgtcg ctgaaggcga gcgtgtcttc ttcaaagtca 2340
 ctggaacca caccatttac ctactggaa attatgtcat gcctattgac gagccccgtg 2400
 atgactacga tgaagatgat gacgaggacg aggaggatta tgatttgtct ccggatgagg 2460
 atgagctcga tatggacgag ctcatgatgg gtgaggacga cgagagtgat gacctcgatg 2520
 gcctggagaa ccctaggatc acggaaatcg acaccgatga agaggaagca cccaagctcg 2580
 tcgacgctaa gggcaagaag aagcgcggtg ccgatgaggc tgctctggaa gctaaggatg 2640
 acaaggcgaa gtccgcggcc aacggtgaga gcaagaagca acagaagaag ctcaagaaga 2700
 acaacggcga ggcttcgct gtcgaggcca agcccagca gaaggagacc aagaaggttc 2760
 agttcgcaa gaacctcgag caggaccta cgccttcaa ggagaggaag cctgatgaga 2820
 agaagcctgc tgataaggca gagaagacga ctggcaccct tggcgtcaag gaggtgaagg 2880
 gggtaatcat tgatgacaag aagctgggta aaggccctgc cgctgcttct ggcaataaccg 2940
 ttgccatgcg ctacatcggc aagctcgaga atggcaaggt ttttgactgt acgtttcctg 3000
 gttaattggt cttttggata tttggatatg gctaacattg cccctttaca gccaacaaga 3060
 agggcaagcc cttcaccttc aaactcggca agggtgaggt gatcaagggc tgggatatcg 3120

gtgttgctgg catggctgtc ggtggcgagc gtcgtatcac catccctctt caccttgcct 3180
 acggcaaaaa ggggtgtccc ggcateccctg gtaactcaaa gctgatcttc gatgttaagc 3240
 ttctggagat caaatagagg gattcccttta caacgtatgg actctgaacg agccgggtgt 3300
 aagcgtacgt gtggatgata tacctccgtc ttttcagtct tttgtcttag cttccacatt 3360
 gcttttgtct tgcccaaaag aaccataggt gttataggtg ttatcgaatc atacttcttt 3420
 cccattacaa ttctaggtaa ttctcggcc tttggaaagg aaggtggcca ctgccaccgt 3480
 cgcgctttct tgtttgccgt agttcactca gtctcattgc cgtccattca atcgtcccat 3540
 tatctttctt ctcaactcgt gtccgtcttc cccaggcgtc cgcaaattca gtcgtttatc 3600
 ctgctgctcc atttatcatt agccttcgca tgcgcctcga ctttctcgt tatcaagtat 3660
 cttgctaaca tctgcacaat gtccgaggac caaggtcagc aaggacagcg cttgtccacg 3720
 gcgcgaggct caacttgct caagcagacc atgacagagc cagccttgct ggcaggttta 3780
 ggtaccgatg gtccgtgcgg ggccgcaaag gacaacatac gagtgcgcat ccaatcacga 3840
 cgccgctctc gcttactctc tcgttttaggc cgtaagattc ccactcaggg taggttcacg 3900
 gtaggctggt acttttggtt cttgctaata tacacctccc tagctgtcga accagtcaag 3960
 tctcatgaga cccatagcca ttcttcagat gccgaaggaa cctcacacca agatgtctct 4020
 gatcgtcgca atcacccatg ccatacgcca agaccatcaa gccatagtca ggccgactcc 4080
 tttgaaagcg ttgcacgagg acagcaaaaa gagcaatcgc gaacaatgag agaggatgcc 4140
 gtgagtccag tactactcga tgtgaaaagg agccagtcaa ctccagtcga gcttgcgaaag 4200
 ctctgtgccc taaagctgtc gacgtcgttt ggcagtcgta cggtgattcg gcgttcgcag 4260
 cctggtgtcc gacagagtgt acgagctgcg cagcttcagc gaatgatgct cgaccgtggt 4320
 aatcccaaga gagagagaag ttctggctca tcgacccta gtagcaaaag ctcgccagtt 4380
 gacagtgtct ccacggcccc tactttctgta tccctggga gtctggcacc ctgaggagt 4440
 accaacaacg atccagcgtc aggtttcaag catatcgact cacaagctga cttgccggaa 4500
 cgccactta gtccagttag ggagtccccg atggtttcac cgacgatcca gaccactgag 4560
 gcaaccgcaa tcgtgaaagt attcctagag acacattttc atactctctt atccgggctc 4620
 gatgcacgaa cacagcgtcg attggagcta gatcagtaca ttgagacctt tcctctcagc 4680
 ccagaagagt ggttcgtgtc aggaaacact ggtcactca agagcgagat tatcttcgcc 4740

aatatcgagt cctgaagagt cgcccgcaag acaaaacctc tcgcgctgga actgcttctc 4800
tcgcaggctt cgaacccctc aagatattgg gaagaggaag ttccggtgtc gttcggctgg 4860
tgagagagaa acgcaccgac gagcagactc agtcgggtcg agttccgctt gccccaaaaa 4920
ctaaccaccg tcaagcaatg acgggggtga aaaaggatgt ctttgccatg aaagtatatca 4980
ggaaatcagt gatgattcgg aactgccaaag aggctcatct gagagctgaa cgcgactttt 5040
tagtcgcttc tgctaaatcc cgctgggtgg ttcctttgat cgccagcttt caggaccaga 5100
aacatctcta tctggtcatg gactatatgg ttgggtggtga tttccttggc ttgctgattc 5160
gacataacat actacgtgag agcattgccc ggtggtatgt cgcagagatg attctgtgta 5220
ttgaagaagc gcaccggctt cgctgcatcc accgtgacgt gaaacctgac aactttctta 5280
tctctgaatc tggtcatctg aaaatatcag actttggtct ggcttcgac ggacactggg 5340
cgcacgacca gtggtacttt acttatcaac gtcactcctt actcaagcgg ttgggcatcc 5400
agatcgacgg tgacgctgaa gaccagaaac tgtcgcacga cgcaaacata cagtcccttg 5460
gcacaactcg tgaggatgga agcatggaag atgactggat tcacctccc accaacggcc 5520
tcctgcaactg gcgtgacaag aaccaaacc gaacgatggc aagaagtgtc gtcgggacga 5580
gtcagtacat ggctccagaa gtcattcgcg gccaccctta tgacggtcga tgcgattggg 5640
ggagcctcgg cgtcatacta tatgaggtac ttacttttct tctgcctttc tgcttgtcgc 5700
tcgtttaaca tccgcatagt gcttgtatgg tttcactcct ttcgcttccg aggatcgtca 5760
tcagacaaaa ctcaagattc atgtgagtgg tctccaatat agcttgttca ttatgtctgg 5820
gttttgctaa tatagcatga aaaagcgtca cctccagaca ttgtacttcc cagtccaccg 5880
accacgggac aaactggtat cagcagacgc gattgatgtg ataaactccc ttcttcaaga 5940
gaaggagttc cgcttgtctt cacccaaata caaacaaac gacgctatta gttccaagcc 6000
ggcaaagtgt tccttctata agccggactc ttcgaatccg agttatcaag gtcattacgt 6060
ctaccccgat gatgcgacag atatcaaac tcaccggttt tttcgtggga ttaactggga 6120
gcagattcat cgcacgtctc caccttttat tcctatggtc agaggggtggg aagacacacg 6180
gtatttcgat gacggcgaac atcctagcga ccgcgaagac gactcttctg actccgagct 6240
ggatggagtc caggataaat ggcattccgt tggcggcaag ggagggcttc ataagcctga 6300
caagcctttg aaggcagatg ttaaaccag ttcgtatccg aaaggaaatg atggcgccaa 6360

agacactgcg atcgcttctc tgaagcacia gaagagacta aaggaggcaa aacgggctcg 6420
 agacaagatc ctaagggata agcggcttcg gagaactgta ctagaaatgc gtaagagggg 6480
 cgcatttctc gggtagacgt atcggcgggc aaaaggcgtg actctgataa cttcagagcg 6540
 aggccgacaa tttctccga ggagcaggtt aacagaccta tatggctgac gagagtcaga 6600
 cggtagcagt tcttaagata gttttatagt tggctttgtg tttctcttgt ttgttgtgtc 6660
 actggcttgg tgtattattg gcttcgaaac cttccatctc gataacatta agagtcacaa 6720
 cagcactgac 6730

<210> 3581
 <211> 2481
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3581
 agccaatccc ttggcttcgg ttagacgccc ttttgctgct cgtaacgtgg tatcttccat 60
 attggcgacc tgaaatgcac caagtttcca tggcttggat cgctgcagcc acattcttac 120
 caatttcttt tggctgggct gccggtgatg tctccttggc cgcctatatt caagctgcgc 180
 ttgccagggt cgagtcgaaa acaagaaatg tctcttccct tggcgccgtt atggctttcc 240
 tctactctac atatatcgtt ctttatgcaa ttacctcccc tatactcggc agttatatcg 300
 atcatatcta tgaaaagaca ggcggacctg atggaaacgg caatatctac gaagcgatcc 360
 ggaacgtggg cagcgtgcaa ttcagcgtgg tcgcaattct ggtcctagtg gccacctttg 420
 tacctcgcgg atcattgtct ttgaatccga agatgctcca cgatgaagat ctggagcatg 480
 aattaccggg gctcgcacag ctgtcttcca aggaggattt caattagggc atataccaca 540
 acatcacatc gtactctgca aatctcacta tctatttggc actgaatatc ctttccgttg 600
 tgccataatt aagccagaat tattcgccc actttaacga tatattcaa atagagtaga 660
 gttatggtaa ttggccctag caggccgtaa gattgaaagc catagcgttc aaagaaaccc 720
 ctattaaact catttgtggt tatccgcctc caactccgat ggctcgcctc tgcagccact 780
 caaatgaaac ggatgaatac tgtgatccca gttccaatga ggctgctgct gctgctgctg 840
 cggaacggg acctgcgctc ccaaaggaga cgaaattcca taccacccat caaagatcga 900
 agaagtgcca gtctgtgccg gggccaaggg caagcaatgg tctactgaga cgaatcctgt 960

ccccgttcca gtcccaggag cagtaccggg ccgagatccg ggtccaaact caagcccaac 1020
catagtcca tccgcagcag gctcgtgaag gagcgatgac ccatgcgctc tcaagcttcc 1080
aggaaacca gtactccctc tatcaccttc actcctttca gaatcaacac caactccaat 1140
agcagcggga gtggaagaat ccacccactg cacgggtgcg gtattcttcg acgagctcgc 1200
gcaatcacca ctcccttctt ggcccttgca aagccattgc ttatacacgc ggttccagcc 1260
gagaagaaac aagagagagc ataggatagc cagaaatgct acggaccca ctacaatccc 1320
ggcgattgca ccaccgctga gggcggtggg ggaggagggt gaagagggtgc ctgcagaggg 1380
tgatgggtgac aaatgagtag ctgttgctc ggtattgggg ttcgagcctt cagctggcat 1440
agattggccc gggaggagca tgtagggggc ttcgagggca gcttttcgtt gggattccca 1500
tgtttggtga atgttcttga tggatgttgc tcagtttggg ccgcgaaagg tgggtgggtat 1560
ggatgagggt acgtaccggg ttaataacgc ctaccatgcc gttcctgatg caggagtctg 1620
cgccagtaca gtcgaagaag gttggctgat catgaacatc tgagggttagc taagctcctg 1680
gattcctgaa agggctaaaa gatttgggaa aatacctctt ctcgatcaac agtccaattc 1740
cacgtcggca acctgccaac aacctgcccg ttcacatcat tgaaatcgtt cttgatcccg 1800
gagaaaaaat aatttccatc ggcaggcatg catggtgctt tccagtctgc ctgcacgacg 1860
gagtgggttac gaggatagaa ctcaaagact atcaagtcgc cgacactagc gttgagtgc 1920
cgaggcacgt agccgtgcg gtcctctttg ggaccgactc ggactgtgta tgttgccttc 1980
acagttgatg atgttgctgt atttgagttc gagaatctgg atgctaagt tgatgaaggg 2040
ttgttgtagg acatgattga tgcttggtc agagaaacca gctttggggg taaggctcggg 2100
agcgttgtaa tggatatttg aaatagcgag tatggcggga gatagaaaag aaaacaaata 2160
taaggtgtcc ataatacagat gcagccaacc gcctcattct aacaaagcgt tcataactag 2220
gattctatta tagaccgggc gttgaaagca aagacgagc ttggaatgtt cggccggatg 2280
taggttttgg ttgagtcgag gctgcaacaa agaactcta ccgggtttga gtacgccttg 2340
aaatgtcatc tgaataaagc ctcaaggcga ttcacttggg agcacgctca aaaagggtgc 2400
aaattggtac tcaaacacga tcatacataat gccctagccg gaatccaaac caccacagta 2460
gatatcacgg aatttttgca c 2481

<210> 3582
 <211> 2386
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3582

```

ttatctatag agagttcata cctcccttat ttcggatggt aagaccattt gacacagtaa 60
ccacgctcac aggtttcgca agaccgagtt caaaaatagc atgtttaagc ttaacgaccg 120
tgcgttgcac ctcaaggcgt acgcacagcg aagcacaac gaatgaccag cactagcgtc 180
cgcagttcct ccatggctgt caagtttctc taatgagctg gtcctttcca gcaatggcga 240
tttgatccgc tggatgcacg tcaactcctt gaagcaagat gttgaatcat ttagaccgtc 300
tgggtattct tcaggcctta cgggcgtgag acttcgagtc ggatagagat ggaagaagat 360
gggaaatgcg cgtgagctca tgcgcgatgc aataatttac aatcgcaaaa acccaagtgt 420
ggtcttcttt gaggccggaa atgccggatc tccgaagaac acatgaaaga gatgaaggag 480
ctaagagata ctttcgatcc acatggtgga cgagccgcgg gttacgagag atgctagata 540
gcgaggtagc tgagtatggg ggcgagatgc tgtatatcaa caaggattcg cgtaatccat 600
tctggcagat ggagtacagt cgggacgagg gtttgcgcaa gtatgggatg attattcccc 660
accgtaccat ttggatgggg atgggccact ttacaatggc gaggatgcca gcagttacaa 720
ccgcaatcaa gactccatgc cattgaggac gttgagaggt ggtccgatta ctatgagcag 780
caacctggga ctggaactag ggttaattct ggcggagtga atatcatctt ctcggattcc 840
aatactcacc acagaggagc ggagaattac cgtcgtcttg gcgaggttga ccccgctcaa 900
ttgccaaagg acagttggta tgcccatcag gtgatgtggg acaactgagt cgatatcgaa 960
aaaataagcg gacatatcat tggacattgg aactctcaat caccaaggac attttcgtcg 1020
tctccacggc agaaagagtt gagctgacca acttcttggg ctgggggggag cagagcagca 1080
ggttccttta cacattctcc aacgtcactt ggaaggccgg ttcgcccaag gcctttggat 1140
actccaaggg cgaagaaaga agttcttctc gacaaaaaaa aagaccagcg gtgctccttc 1200
cagtattcgg cttgcttccc ggacagcacc taatgtgttc gtcgccaacg gagcagatat 1260
cgcaattggt gacgtgtaag tcgttgatga agacggtcaa cgggtcccca tctctctaaa 1320
tgaaatcgac tttaccctct ctggtgcggc aactttggcg tggcgggtatt gctcaaggcc 1380
ctaataatta catttttaca aaaacacttc ccgtcgaaaa tagtatcaac cgcgtgctat 1440

```

gacgctcaat cacacaggcg ggcaaagtga ttctacgtgc cgcatatgag ggactcaagt 1500
cagcctcgat cacactcact accaagccca tctctgttga gagcggcctg agcacattca 1560
tcccagtga ggacctgcag cctcacctct cacgcggtac cacgccagct ggagagtcct 1620
aagtagtctc acgtcgggca gtggaagtcc tcaacgtgac agctggcttg ccgagagtaa 1680
ctcaacggcc tccacaggca acaacgaaga gactacatgg cgaagcgact cggatcagga 1740
cactgcttgg atcgaatatt cttgggaaga accacttaat gtgtctcagc ttgttatgaa 1800
gcagcgcagc ttctgtaccg agagataccc tatcaaagtc agcgtgggtg acacgatcga 1860
tttcgagggg acgactccca cttcgcttgg gtacgtgacg cttgatctta atgcgacaat 1920
aggtgaaaagt ctgaagggtg ccatggatga aaacgacgac ctaggggtta ttgaagcaga 1980
gatctacact ccggettaag gccacaccta tactttttct catcagcggg ctccaaggct 2040
catacgcttt ctgattggtt cagatgagac taggaaatat tctttgtggt cactctatt 2100
gtacttcctt cttgcatggg cattaggtaa ccagaagtaa ggtacttgct gatcagtatt 2160
gtacttagca ccaaaatacc atgctatttt atgcttagcc ggattaaaga ctcagataag 2220
gtaattatat attaaaaaaa aaaaaaatac caggcagtat cacgtgatta cgcgactatc 2280
ctgacgcgat ccgtcaagcc tcgttcgccc aggatcagct atcttgtatg atcttatctc 2340
catcatttgc acctctatga ggggtgtcttc cgtttctggg catctg 2386

<210> 3583
<211> 2562
<212> DNA
<213> *Aspergillus nidulans*

<400> 3583

agtggctttt tcaatcctct tcccaaggtc agcattcaca cggcggaaca tgccatatgt 60
cgcctggcgg accctagggg gagcattgca gaggtgtccc gcaacattac ccacaaaatt 120
ctcctgctgt cccggctggc gaccaaggac tttccagagc ccattggcct gaacaaagtc 180
ctcatcagta acaggcagct gctcggttac taccgagcca gccacttct cgtgctcctg 240
ggacgcctta acgggcttgt actgcagcgg ccggaaggtc gatgggtagt tgggattcgc 300
gccatgggtg ccattcacgc tcattgcgcc gtcgcggtgg aagggcgtga atgcgcgcag 360
ggggcagttg acgggaatgg attgatagtt cgacgtgccg aggcggtgac ggtgggtgtc 420

cgggtaagag aagaggcggg cttggaggac gggatcggcg gagggctcga cgccggggac 480
 aaggtgggag ggagagaagg cggcttgctc aacttcggcg aagtagttct cgggattctt 540
 gttaaggggtg aagcggccga agcggcggag gggaacttcg gattgcggcc agaccttggt 600
 caggtcgaaa atgttccagc ggaacttctc ggcttgctct ggtgacaggg tctgaacata 660
 gcaggtccat gaggggtatt cgccgcgggc aatggcattg aagaggtcct gagtgtgcca 720
 gtcagggttc tcggcggcca ggcgcgtggc ctccggcgtcc gtgaacgtct tgttgccctg 780
 gtctgttttg aggtgcagct ggacatagtt gaaagtgcc a tcgggcttga tccatttgta 840
 ggtgtgaccg gagtagccgt tcatgtgacg gtaggagtag ggagtgccgc ggtctgaaaa 900
 gaggtgcatg acctggtgaa cggcctcctg gtgggtggaa aggtagtccc agaactggt 960
 ggcgtctttc aggtttgtct gtggattacg cttctgggtg tggatgaaca tggggaattt 1020
 gctaggggtca cggaggaaga agacgggggt gttgttgaag acccagtccc agttgccctc 1080
 ctcagtatag aacttgacag caaagcctcg agggtcgcgg gcactgtcag gggagccctt 1140
 ttcgcctcca acggttgaga accggacaaa ggttttagtc ttcttgccga cgcccttgag 1200
 catgtcgatg acgatgatat cgctgatgtc gtcggtgact tcgaactcgc cgtaggcgcc 1260
 tgcacccttg gcatggacca ctgcctcggg aatgcgtca cggtcaaagt gggcgagaag 1320
 gtcgataagg ttgaagtctg gcaggaggag aggtccgttg ggcctactc gctgcgaagc 1380
 ttgcgggtcc atcacctggg attgtcagcc tggttgatag cactgtcata ggtatacctt 1440
 acaggacagc cattggaagt ggtataaacc gggctttcat tgtagcggta cgtctctgga 1500
 acgcgttagt ttcgattcag aggccaacac tggagacaaa gagctcactt tggtcgtcgt 1560
 tttggcccat tgtgatggtg ttgaagcaac tctaacgcta attgatcgt aattgaagtc 1620
 gaaaaaagaa ttgaagacag gttggccaga ggacatgcgg gggttatatg cagtccagag 1680
 tgctcctcat gaggggacag taataagtaa gctaatacca aatataaacc tttcgagttg 1740
 aaactgcttc atcgcgctaa gaaaatctat atagagagct tcgaccaatc agagacgctg 1800
 agaagctcac cgggtggtgcc ccactatcga agcggaaggt ctttccgatc ttctctctgg 1860
 cttctttgct gtctatcagc caattatcac cccaaaacca tacgatcttc agtctcccc 1920
 gcactaagca ttgaggaact catctgacag gttaaagcga atccagggcc agctgtcctc 1980
 gagaatcgga gaattccgcg gtcaggttcc gcttcgaccc aatcttgctc cagatcatta 2040

ttccttaagt cgatggcatt gggctatgga atcttataat cagagcaacc tcttcagcag 2100
 gaggggactg ttttcaatga tgttccaagt atttcaggtg gcggatgac gcacgcgtcc 2160
 tctcttttag ttcaagaaat gcgagctcgg aaccgctctc agcctcgcgt ccgccccaaa 2220
 aagaccacga tctctcatct actatgcttg cccaaccag accgatcttg ttggttatta 2280
 acgctcttct cacgcgatac ttaatcgact ttcagtctct gcctcgcctg tgcgtctcc 2340
 tctcacttct ctagctctct ctattttctt cttctctatg taccttcttt tattcttcta 2400
 tcatattttt tcctacatca tacccttctt tctcttttct ctatcaactt ttcaattttt 2460
 actctcttct cctctttact tcctttactc attcttcacc tttcattttt ctaatctccc 2520
 ctccacttta tcctctcttc ctctttaaat ctcttacttc ct 2562

<210> 3584
 <211> 5444
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3584
 gggaaataga ggaagtagta gtgggagagg gaaggagagg gaaggtaaag aaagggagag 60
 agagggggag gagagtggag ggattacaga aagaagggat ggagagaggg aaagaaagat 120
 gatgaccaga ccgtgaaata accattggaa aatgagctta gggactagaa aataaggaac 180
 accagacaac cctcaaggta atataggggc gccgacccat ccaccagtcc cccgcaggtt 240
 aatttacgat cctcttcctc aaccccgagg tgtccatctt tttccagaaa ccccttccca 300
 tcttgcgctc caacgcattc ggtacagagg gataagtaat gcgtgccgct ctaagaatcc 360
 agtaactgct ctcaagctct tcaatgcgca tcttgtgtcc cccaccactg cgctggccga 420
 gcaagggctt gtattccgag cggcagactt cgtccgtgca gaagcgccgg ctgcgcccg 480
 tccagtccgt ggggcaggca tgacgtttac cagttatgca gggctggatt gtgatggaga 540
 attccttggt catttggtat ttcaaggagg attcgagaga caatagagga ttcactgggg 600
 agtcgttggt ttagagcgg atgtggtccc ggatgagacg gtagaggtag tcagttatag 660
 cagggttctc gatggctact ttataccagt tattataaag gcctttgaaa cagagggtat 720
 gggaggaggc agagggagac aaacaaaaaa gcaccgcagc gagtactcgc cgaaagcgat 780
 cgcgctcctg ggcacctca aagcgcacaa catggataat cctacttgaa caccttagct 840

tcaccttctc cttgtcggtta tcaactcttct tcagcgcccc cttattcacc atgtccaccc 900
 agtcactgaa aatgaagtaa tccccctcac ggtgggttcat attgaagtgt acggcctgcc 960
 ggtggcgctc gggagtatca aaaccatata gacacggaat caacggcgga gcctccctaa 1020
 cgtctctcgg aatggtggat tccttgcatt gatacgtgaa aacagcctgt ccgcataatcg 1080
 tccagtgtgc cttaatatcc tgtagcagat gggcgcgga gcagtaccgg gtttctgagt 1140
 aggggccaca cttgggacag attacggttg ctccgtccca gaggttgcag cgggcagaac 1200
 agcctgtttt tgcgcacgga aagccgtgac tgtcgagttg ccaaagaag tttgagggct 1260
 tcttggtatgt aatcttgccg cggcagctgt tcaatgtccg tcgtagaact tgagatgctg 1320
 cggctggagg ttgaggcgga cggagagggg tgcgcgtgaa tgcttatcac ttgggggtgat 1380
 aatccagagg cagaggcagc agtaggagga gctagtccgg tgacattgcc tgctacctta 1440
 cctctgccct tgctccttggg gcggtgagcg ctcgaggggtg cagaggcagc ggtagtggtc 1500
 cgaggagtag atgcagatgc actgggtgtc caggccgttg agtttgatgc tgtgccactg 1560
 gaccttgagg tcgaggcacg gagaacagga gactcactgc ctgcaatggg gacgctgtcg 1620
 tgctggattt ccccttctat aaggacagga agcttttcaa tcatggggct tgtgtgtttg 1680
 acggagctct gcccaaagag cgaggttgac gatttggaa ctagccatgc ggtatcagca 1740
 tatttcccat gttatgtgtt ccgaagcagg gacatggaat gactgacttt cggccccagt 1800
 cggaaccttg ggctctccag ccacggcatt gtcagcgtct gtggcttctc gcgtagcaga 1860
 aagctcaggt gaagacgggt ctgccagctc agacgccgag gtagtggttc ccgaatctat 1920
 aaaaatggtg tcagtacgtc tactgcattc ctgaacgaga gcataagatg ggaactgact 1980
 tctgggggtc gtgtgaattt tgggttcac agtctgcgtt ttactagggg cagcatgctt 2040
 ttgcacagat aaaaactcag atgaaggtag tgtcgcattc ttctccgagc aagatttggg 2100
 ctctcagtg acagctttgc tagcgtcggg gttcttctgc ccagagatg actcgatcga 2160
 aggtagcctt ccatcattgc ttggagaagt ttgggtcca tcagtcgctg tatcggtgc 2220
 atggaccttc ctttgaacag agggctgtc taatggagag agtggtgtat tgttatctga 2280
 ggcttcagtc tccaatgcct cgacgcgttg cttgcctttg cccttggcat tatcattagg 2340
 atattgatca ttgatcaact gtttctctgc agcaaggcca gcttcatagc aatcctgtga 2400
 ggtacccttc tcacgcaggg cgagttcggc actgttacct ttctcaaagg cctctgagag 2460

ttccgccagct tgctcctcga cagtaacact gctcccggta ttattcttcg caggtgtact 2520
 tgaattttcg ccatgttcct cgacgggaac attcttacct ttcttcttgc ccttagattt 2580
 gttcttcttg cgcttgtcag acatgaagtc gaggaggctc gccttcatga aggccatagt 2640
 tccttcggag gccgagcctg gagtatcttc agcagagacg aaagtcttgt tctcagtcga 2700
 agattgtaag tatgcctcag aaggcggacc aggatcggag gaaccactaa gtgttcgagc 2760
 tcggaggagg taaattgctt cggatatggg ttgaaagtcg ttggctggtt ttgtgttaac 2820
 acaaaaaagt gagaatttgc ctcatagagt agagaatgct gacgggagaa tggagaacga 2880
 catgggtccg agaaagaatc acttcttacc agtgttatta cctgcagacg cactttcact 2940
 atcatcgtga ctggcaatct gactctgact cgtactcgga agtgaatggc ttctcctcct 3000
 caagcgtgcg gctttaggag agcgggattc gatctggtcc ccggggcgac tggacgcata 3060
 gtgaaattca tccttccctt cacattcact ctccagagga ctgggctgca ccgaaggctc 3120
 ttcgaacttc gacgtaacat ccggagacgc gggggcatct gggctcgctt tcactctggtt 3180
 cctattgctg acattgccct tttttccggc cttcttacca ctacgccacg gcactgctg 3240
 actggagggtt ttcttgcgag gcgccatttg cacgttcagt ctgatgcaat acaatgagct 3300
 tgatgcttcg gctctctgtg aataagcggg aagtagaaag gacatactta agattccaga 3360
 acaacgtagt gagctgactt gtcagtaaga gaacgagggt gagaacgaag tttgctatcg 3420
 aagccgagtt gggccctttt ttgatgcttg tcttgctgcg tttcgttctt ttatgcgttg 3480
 tgactcaggt aaactttggg gtttgaaaga agagaaatgt gtttaaggatg gatgaaaggc 3540
 gagaggtttt attataagtt gactgttcat cgccatggcg atgatggtgc gatgattgtg 3600
 ctgtttccga tgcaaaagtg gtactgaaca ttacgacttg catagaatac agcatggaaa 3660
 ggtaaattga tgtgaatgga agactactgc taaacatggc tttgcatacc agatattact 3720
 ctttgtagag gtttggtgctt aacttctcta tggattgtct ggcggcatag aaaggaactc 3780
 caggcctttg cataccgatt tcctgaccgg gaaaaggcct cttatactat gctcgatggc 3840
 aggaggtatg atgttttaag acgaagaacc acgcaaggac tgacattata tgtctacaga 3900
 caggtctacg ctccgcattt cgtccataac aagccgacta cacctccagg tccggaacct 3960
 agagggctcg agcactttac catgttttcc agtctagtct agcttatata cgtcttgcca 4020
 atcgactggg gtacttggga agtcgtttca aatccgccgg caaggcagca aacatactct 4080

gtggtggaca acatagtcga cgagatagcg ggcaacttga gggaccgaat aatcagtgac 4140
 tggagcgttg aagaggcatc cgtcagtttg acaaagcata tgatgcgatg agtatgtgcc 4200
 aactaggctc tatgatatgc gcagaataca gtttactgaa tattgacggt ggaatctata 4260
 tcgcagggtcc cttegtcagc agcttgctgg tcaccgtatg tgattaaagg ctggtggacg 4320
 gaattagggc acagatctgc ctagatacgt accttcgaag aagcaattac ccaacagctt 4380
 tgcggctgta gagggagatg cttttgttaa caatatgaaa ttcattaggg ggggttgctt 4440
 tgttatgtgg tggactctaa caagtgaacg ttagttgaag cacttcagaa acatattttg 4500
 caaaaccgag cgctgaaacc cattagcatt tcacctaagc attactcgat caaagcccaa 4560
 acaccatcac tagatttcaa gagaagtcct agatacagaa gaaatcttat ctgataagtt 4620
 agacaatgaa gatgtgtctc cgttgtcttt atttggccca tcacgtgccg tcctcttgta 4680
 tctccatccc tctctctcca cctttccacc ctactgcgg tcaggcagct gatctcattc 4740
 ctcatatcaa aacgtgtcta ataactca gcatacgaac tgttgactaa agttctagca 4800
 atcgcttacc agtcaagcaa tggcccgtg cttggtctgc ggcagtccag cggcaagtga 4860
 agcaacaagc gcctcagtca tgaatgcctc aaagacgacc cgaagagact cgacaaataa 4920
 ctgtccttga aagaaaactc atgtggagat ctcggtttca ctgagatcct gtctctggct 4980
 ggcgccgttg cggaggtcaa gggattgggc gacgaggctg cgctctaagc gccacgaca 5040
 tggctatatt tggcctcgca agcgtctctg agaaatccag tttgccctac ctactggtgt 5100
 cactggatgg atagtagcag aatcctcgcg cgagatgaaa cgtaccaagg acgagatcaa 5160
 tgtttactca gtgtttgggt ggcttcggaa accgtctatt gcttggtatg aatagactgc 5220
 cttttgtctg aatgactact tgcccaatgg aagcctatct tggctctcaa agcactcttt 5280
 tccacgaatt gccttgcatc caataaatgg gggattaccc ccgttgctgc tgttctcttg 5340
 tcctattgtt ctgctctttt ctccctttcc tatttgggcc gactaacact acgctcactt 5400
 gctattcatt tcgatagatt tcatgcggtg tgaattcttc atag 5444

<210> 3585
 <211> 1631
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3585

ccttgattct cgcgagtggt gggtcagtc agatgaatcc cgcacgac actcgaattt 60
tggtcagtc ccttaatttt ttcaagcaaa gcgccaacaa ctcccgcgac tcgagggccg 120
caacttgcca tgagttcgga ggtaagagcc agcgtcaca atcgcgacag aagtttagaa 180
ctgcctctcg ttggatgccc tgtgagatat cgatctgaag tttcatgcaa tcagggcata 240
tcgtcgcccc aaccaacgga gccccgcaat tgtagcagag cggtcttgaa cttgttagt 300
tgattagacc tttgcgaatg gaaggaagag gtgcttacgt cgggatctcg ctggcaccat 360
cagcctgcgg tgccataggc acgggaacat cgatatccat cttgattttc cttttgtcag 420
aatatgatga tggctctgagt tgagtcgggg caaattccgt gattaaagat cgaaaaaaaa 480
gttcgcccc catccgatta gtcagatagt ttgagatcga taagatcacg tgaaatattg 540
tctttccagc tgattgtgat ttctatctt atctctgcta agacctgata gatcattata 600
agagatattt gaagatgaat aactgagagt caaatgagc actagagtgt tggagtggaa 660
taatgacgat atatttcggc agcgggtatc taggtacgcg gcagcgcca atattttaca 720
cgtacatgcg gccgtggaaa gggatactta cgaaggccct tgggaaagag atctttactc 780
atcagttaag cgaagatgat acgtcttcag agcctccaga gaaaccgggc tgggagcctt 840
aaccatcgga tcctctccga gttttccagt cttgggaaaa gcaatgacat cccgcacaga 900
gtccttgccc agcatgacgg ctaccaggcg gtcaaaccac agtgccagtc cagcatgtgg 960
tggaacatcc gcgcgaagtg cttctagcag gtgggaaaac tctgttagtc gtcaggtgg 1020
catctgaagg acgtttcgga ggacgaattc ctgcacagca gcatcatgga tacgacgact 1080
acctccacca agttccactc cattcactac caggctcgtag tggctctgca cgactttcgt 1140
tggttccgta agaagcaaat ccacatcggc agcacttttt ggcgagtgaa aaggggtgatg 1200
tgtagaagat atcccggcag caccgccttg accgggttcc gagtcgctgc tgggagagaa 1260
aagaggaaa tgacaatcc aaaggaagtc aaatcctacc gcagcgggct taatccggtc 1320
tcgacagtag cagaataaag ggcacgacga aggtcaccct atcggagtcg aaaccgcttg 1380
tgaatggagc ggcttcgagg gcttgcatg cgagtaaacc cccgtgatca ggctcaataa 1440
tttctccac atattcagca gcttgtaagc cgaatggttg cagtccgcat aggggctttc 1500
gtgcatcgta tacgaatata cccggcccg cttgtggggc ctcatgtaac ggtgcaccgg 1560
ccggttaatc aaggaatttt gtgataaaat aaaacatggc tgcaggatag gtgtcggttac 1620

cattgatttt g

1631

<210> 3586
<211> 2431
<212> DNA
<213> *Aspergillus nidulans*

<400> 3586

aaaggggccca acttgaaatt gaagggcggg ccaataagct aagaggcat caagctgtga 60
ggcccgtggc tggctcaagt gggcctgttc aggatgcagg ctctcttaa gccgcaaacg 120
gaaaagagcg atggcgagc tgccttccat tggtaaatat gtagatgcct agcatggcgg 180
gcatccaggg aacccccctaa ggccgggagg gtggccgatg agtgggtgcac cagaaaagaa 240
gategctgtc gagtctatga ttcaactgat attcatccgc cacttagttt catccgagtg 300
ccggcatccc cgcttggttt gggcctttgc gcatcgcaga atcatcgata gagatttatt 360
ttgactgccca caccgtactc agaagtttcg ccggtctgaa aactgcaggc gatgtggtac 420
cgtagccttg caagagcagc aggagatctc ccgttttcga gcgatgggtca ccgagacca 480
agattttattg cctcgaagat gcgagctaaa ggatggtttg attttggttg aagagacggt 540
atcatcatga tgcgacaagc aaaactaccg gcaaagcagg gcaatccgcc ccaacgccat 600
caggagtggc caaatcctgg attaacggaa tctgccatga ttcccacgaa tatcaatatt 660
gcgcagacac ggaaagcgaa agcctctgtg atgatggcag taaccgaatt cgatacctaa 720
taattacgac ggccggggtc gcaaagtagt agtgtggcct caaagctcag gctgccgctc 780
tgccaccac ccaaagtagt ttacacaccat agaccagcag acccagtcca gagactagag 840
tcgctgctaa gagtcccagt tccagtcctt ggtctctgtt tcgtttctc tgcactctcc 900
attccttccc tcctttccaa ttctcccaaa acacacactc tcctcccaac actgtccacc 960
ttgtttcgcc cttgtcctta tctaataacc ctctactcat cttacgtct caccgacaact 1020
cttccgattc tcatccgacc gcttgccact cttcatccac ctacaacaga tccgatagct 1080
gcgtgtactc gaagaaccct gagccgaccg ggtctcatct tctttacctc ttttaaactt 1140
ccttttccac agtcaccatt catccacac tctttgccc gtcctcaccg tctctaccga 1200
gcgtggttga ccaccgactt ccgcgcccaa ccgctggtgt ccttggtccc caagtcactc 1260
tgtccgttac ggctccgaa aatgtcgagc agaacttcaa gaagtcgagt gttaccgcta 1320

tgagtgatgt tgacactgcc ccttcgctgc cggctgtcct ggatcccgga aaacagaacg 1380
 cgtttgagct caaggcgaac aatcagcctg ccttgaggcc ttctcccagg agatcgctgc 1440
 ttctgccacc ttcccagaat gaaaatgttc ctgcaaaggg gttagattct gttgctgggtg 1500
 acaaggaagg gccaccaagc cccaaggctg attcggaggc agaaactata attcaatcgg 1560
 gtcgcgagtc cctgtcacca gagaaaagac gaaagtcat caagcatgaa ccgaaacgac 1620
 gtgatggtga tgcgaatgat cgtgatggg aaaatgaact gccgtcaagt gatgtccagg 1680
 tgaggaagag caagcctgcg gattatagcc atgatgttag cgaccgtgaa cagcgccagc 1740
 tgagccctca atggagagac ggatcaccgc ctattgtgaa gctagaaaag tccgacgatg 1800
 cccgatcggg ctcgagcagg tcagaaacca tgaggacttc gagaaagcgg agtttgagtg 1860
 agagcgtaaa tggcgattcg gatgttccac gaccagcacg tcatagggac tcaccgggtc 1920
 ggagccagga ggaacatata cttagtaatg gtgtcaactt cacgcggccg gcttctacgg 1980
 atcgttcggg gtcgcctgtt cgccgagctc acaagcgaac ggcttctggc cagcagctca 2040
 caaatggaaa aaagaagaag gccccgcag ctttcgctac tgggtttcga aggcaaagct 2100
 ccgaggatcg ccaatcagtg tcatccgcaa atggatctcc agatgccgaa tgcttatgct 2160
 cgaaagattg cttctgccga cggagcttca gcgtccccgg ccagacacac ttattataag 2220
 aagatacgcg atcagaatgg cagaaccgc ctggcgctg cttgcgcggc tcaggaattg 2280
 gatcagggtta agcagcggta tatggaacgt ccagaggatt tgaacgttcc tgtcaatcgc 2340
 ggaaatacac ctttataaat agcggcccta gaggaatgag cgccgattga cgaattcctg 2400
 atcgctgcag gatgtgaagt tgaacctagc c 2431

<210> 3587
 <211> 9284
 <212> DNA
 <213> Aspergillus nidulans

<400> 3587
 ggccaagaag caagcgaaca ccaaaggcta agcagccgcg tgacgggaaa ttatgaggcg 60
 accgcgaggc cgtgagacta ctcagaatag ggcgggtttg tcttgtaagc ggggtgggacg 120
 gccgttccag gagagcggaa ccagcccaca acaggagcag gagcaggata aggatgaata 180
 ctctgtgaac tttaaagatg ggaatctctc cagggtttta aatgacctag ggcttcaatt 240

tgccggggaga agcgaagata aaagctgaag tgccacctgg gcccggtgggt tgccttgctc 300
 aacttttggg cttattctcg ctgcacacaa agagcgcgga ggggttatgg ccaggatctc 360
 ctagccatct atttttccta gcatcaatca cattgcaagg cggcacctag tgtcatctga 420
 tcagatccag tcccagcttg aggctccaca ggcagcggat caatcaagga tgataaccat 480
 acagaatacc aaggacagat gtccataggg ccgattcgcc tatctgaatt tctatcccc 540
 aatcttcccc aattcccatt ccaagagacc cagacagccg ttagctgcca ttgaccaact 600
 cggttacgcc aacctcgaca aggtttcgct attgattctt tctttggtgc cagactcatg 660
 gtttctactc tgcggatccc ccaaattcaa gttcatctca aaaagcactg catcgctcaa 720
 gtttcagtcg gtggtgagag cgtcacctat tctcagagc agcaagacaa caccgtagaa 780
 acacagtaga attgatacat caaattccaa tgtcgattgc cttcacagct gaccgtcgaa 840
 ccagcgcttc ggttcttcta ctgcgattc cttgcattt gcttttttca tgaccaggg 900
 aactggaaag ccaaacacgt tatgattttc gtcaccgcaa gtctttactg ctcatgctc 960
 agcggggtgt tcagtatatt cgaatatggg ctggagcata gagacgacgg ggggtctggg 1020
 gtttttgcca ggatatctac ttgaagagcg ccagtagccc agactacgat tcgctttggt 1080
 catgttacaa tgcccagtcg gtgcaagcca ccaaaaagc agatcttcag atgtcagccg 1140
 ctgagccgca tgtagtcttc tgatcgctgc ggtgggttcc atctgtctgt aaagatatga 1200
 atgaaagaaa aactttgcta gtcggagcaa aggtggtagg tttcaaactc aagagtcggt 1260
 aggaagccat tgccaaaaga tccagttgaa tgctactgcg cacaatgtgc tacttatcat 1320
 tgcttataca tatcccggtc cacctacagt actaatatac aaacagcgcc cctgcatcca 1380
 gccacagcta ccagagcttg caggtaggct gcttggtggg gcaattgaat gcctctttga 1440
 attctagga attcgccatg gtaccctatc aagcctaggg tcagtcccat tacaactgca 1500
 gtgcccaggg tacggattcg acttacaata attctcgctg gcttaggcgc atgagggtca 1560
 ttatatatag cctcttgggc cttctcaggg gtcgttttgc tgcaccacca atttgcgtaa 1620
 gagatgaaga aaacctgctc tttgctgaac gatgaaagcc caggtagaat ggggtcagca 1680
 tgtgcctcgt cgcgcttctt ccaggcgtga taggccgctg tcaatcccc tgcacccgcg 1740
 atgttctcac caagagtcaa gcgaccattg acgtgaagct cagagtcctt gccatggact 1800
 gtgaaattcg agtactggtc gatgaagcat tgtgcgcggt cctcaaattgc cttcactggt 1860

ttctcatccc accaatccgt gtagttccct gtctcgtcgt aatgacgtcc cgtagaatcg 1920
 aaggctttga tatatgcgta agttcctaca tatttcattg gatagaaggc ctgagcttac 1980
 cgtgagagag ttcgtgceca ctcaactgctc caaacgctcc gtaggacaag tataacgggg 2040
 caccttttcc gtagaatact ggtggctgca tgatcccggc cggaataacg atctcattgc 2100
 cagggggatt atagtatgca ttgacagtag gggctgtcat tccccattgg tctcgattag 2160
 ttggcttacc tagctcggac cattctttct caaccacaaa tctcgaaacg gcaaggccgt 2220
 tctcgaagta agtatcattc gagattgaca gactctggta atatttctct acatcggctg 2280
 ggtccatcac gttggggctc tttgtcgggt acccgatttt ctggacgata ttgccaaactt 2340
 tctgaatgcc gagtttctc acttcagatg acatccagtt ggtttggctc aggggtgaata 2400
 cgaagcgttc ctttatatcg gaaacaatct gatctccgag tctctttgac tctccggga 2460
 aagcgtccaa gatgtagaat cggctcaaga tccatcccag atcttcatcg acagtgggtga 2520
 tgcacttgcg ccaccggctc atcttggctt gaggatcctt ccagcgatc acattgttga 2580
 attcacgcag tggctcaatc tcggcacttt caacatgctc agaataggct tgaatgattt 2640
 tccacttgaa gaagaattgg atagtctctc tcgacgtgct cgccaaaatt ttggacagcg 2700
 atttcatata agacggagag ccacaaatta tacgattagt ttcgtagtcc gatggggcaa 2760
 ggtccgagat aatgtcagat attaagatct ggggtagaag tgactcgggt tcctcaatgc 2820
 tgcgcggggt gtagtattgg gtgacatcct cttgcacctg cgtagtgtgc gtcacatcgg 2880
 ccaaggccga ctggaatgct acgacgtctt tcgaaaactg tttccccttc ttgtccccga 2940
 caaattcacc gaggaccgtc tcaacaaccg cgggtgtagc gtcacagtc tgagtgtcat 3000
 tgtagtactc cctcgccggg aggccaatct ttctaggggg tgtcaaaaag atcactacat 3060
 tgtccggatc acggctcgtc ggctgtacga gagtgttagt cctaattgtt tatactcata 3120
 cagacgggaa ggctcaccga aacagacgga agcacaagag caggaacgcc actctttag 3180
 agatacagca cagaatcggg caagccggct tcagtcctc ccatagccga atcaagacta 3240
 tatatcttct cgaagtcgtt cagcaatttc accagaggct cgtttccgcg gttcctaacc 3300
 gcatcttcat caaaacaagc gttatatcca gccttcaatt tctcgaatat ctttgagtca 3360
 gcgggggtccg acgggtccagt agactcaagg agatggcgga ggcgcgtttg agaagcctcc 3420
 tccatataag tccctgcgaa gatcgagccc tggtcggaac gcatatcatg ctggttcctc 3480

caaccgccac aaacatactg gtcaaagtct gtgcaaggat ctatattcgc gtaattgggg 3540
 tccaagttgc gaagaatata cgaagcggcg ttgacgcatt ccgggggtctg gcagatagta 3600
 ggtgcttcag tgtgggggacc atcactgtta gatggctctt ctgcaatgaa gaggtcagca 3660
 ggatcgagag cacaatttac tcagcatact cagcatactc agcattggcg atgccaggta 3720
 cccggctgtc ataaggagaa tggcgctccc tgtccacagc gttgcgtaac acgatgtgga 3780
 gagccatgat cggtcgggc agcaccgga tcttcagat cgctggagtt ttgagctctc 3840
 ttctaggtat tcagattcag aaagagcgga acacttctca agctggtgtt caaagtggtc 3900
 ttgcaggaga agggttcttt cctcgccatc atcactacaa aagtcaataa tgatctgctc 3960
 ttaacttgag tgcttgcggg tgctgaagc tgacctcatt ggcgagtcg gcagagtaat 4020
 cctatcacc atttcgtcaa tcagaagttc atgagcttca actaccagtt aatacagagt 4080
 atataatgaa tataagacac tcagaccatg tgctcgctca gagtttatga aggttgtaac 4140
 atgttaggcg ccccgcggtt ttggagactc tggattggta cggctgatga tgtaatcact 4200
 aaatggccga tggctctgggg tatgaggtag acgcaagtct ggggtgtattc ataccaaata 4260
 gccaaagctta caaagtcaaa tttgttcgga atttcacttt aaaggactac attgctgtct 4320
 gtaaattatt ggcacttgat tattttcaca tatgtctggc aaacttggat gggtttatgc 4380
 acatgcgtat atatccatct tcagggtact caggatgttt actctggcag gttattacaa 4440
 cccgtcctca gcctaacatc tgtctttgat actaatccca tcattcgaaa agggctcaag 4500
 ttgcatatac tcgcgcactc actaagtcct caaggattcg ggcttcggga caactccacc 4560
 gctctacata cgtgccc aaa cggtccggc gcacagaacc aatgtgtcct gacctgggtc 4620
 aagtcaagcc tgcataatc acttgaactc gccagctggg gtagaaaact caacaaaagg 4680
 gagaccattc agaactaatt cgttaccag ccctatgcg caacttacta caattgcaca 4740
 tagaatggtc aggtctctcag gcatactttg tgattgcaa ttgcctttaa aaatagaagg 4800
 cttctgttac ctatgaatca acccttatgt tcgatccaac cgtccatcct cttttgtttc 4860
 agagagggat gcgctggact ggtcagttcg acacatcatc ttgaccctg gtccgtaagg 4920
 ttagcggccg ccaagtcct ctgaagaacg ttcgtttaaa aaagagtatt gtattcgagc 4980
 cctgagacta gagtgataaa aggacaccaa tttctgtgct gtgagggccg cggtttgtt 5040
 tggttgctg ttgcttgac agcatgatcg ctttgctggg tgagcttgac ggtccacttg 5100

acagcacgga tattccatcg gtactctgta atatgggaaa gtgccgtgat tacagagtaa 5160
tctgtgggta cgtcaatggc aggtaggcag ttcctattga gataatgctt gaatggttgt 5220
gtatcaagcg agcgagggcc aagccgtgct tcaggccctt gccagggct cgctaactgt 5280
catgtgctga cgtttggaag cttccgagca gtcccagtgc ggaagtactt tacttattca 5340
gcccgttttc tcatggctat acttgcgatt aacaaatgat cattactggc attcgtctgc 5400
gcgataaaag ctaagaggat tagcgacttt ttagctcccg cgattgcaag agactctgac 5460
tctgcatctt aagccgatgc ttataatgcc atttgggcca caagtccgaa ccagagcggc 5520
gtagtctcct ggagaagaaa gacagatgca ataatggcaa tcacattgta gatcggagta 5580
agtagtaata tcctcctgct tagcaaaatc tttgctcca cgactcatgc agatataacg 5640
aaatgcgtat tttggctaata cacaatatgc caagaatagc catgccacgg ccactctgga 5700
atcaaggcgg gctatgctgc tgtgctctgc atgtgtcgcg aagacgggtga agttctcaac 5760
cccagagcag gtatgcaggt acccctagcc cctgctttac tcggtaggta gtgtggagcc 5820
actggaagga cgggtgtctta tccgttaaaa gatgaaaccg gctggccgga agggcaagcg 5880
tttcgaagat ccacctcggt tcaagaggcg gcttgtcact ctttcttgte ttgaatagca 5940
gcaggcaact caatcatggt tgtagcggct gggatttctg tctaatecga gaatccattc 6000
acacagcaga actgaaatac ctggtcgata gaaccgttgt tataattttc tcttttttct 6060
tctagctgca ccgaacgcca cggacctgtc actcgcaatt ttgcatgtgg tacctgtgat 6120
tgatggacgg gcgggtgtat tattctgacc catcggagcg ggatcagggc ctcggcgacc 6180
gttcattggt aagggttttag catattacga ggaacggaag aggactcgct ccacactcag 6240
aaaccgtcgg caagaaacta gggcctcat cactctgctg accttcgttt gatcttgatg 6300
aagtagtctt aagattgagg tgaagaaagt agtagcattc agatcagggg gaagcaaaca 6360
ctagttttgc cctcggtttc gaaatccgaa catttttagag tcacgtcgac gaagccctca 6420
gttgatatat ctcaagaaaa acattctgga acagcatact ttctcctggc tcgttgcaag 6480
caaaatattt gccgatctgt gcatgcgaga tccgccgagt cgctggcacc aggcctcgtg 6540
gcattatggt ccttagcata ttagcttttag tccgtaaacg caggctaggt cgctctttcg 6600
gttttctgag gtctgagcac tcggagcgcg cttcactttg tccttaactg agttcagaga 6660
atccagagac cttggtgtta ccataatcca ggaaagtga ggcggtatgg gctcatcagc 6720

ggtatgattt gggtagagt gtctagagag aatgcagcgc ttaagaggtc aaactgggag 6780
 actgggggga atttggggat ccattcttac cgttcgtccc gcatagcatg gccgtgtctg 6840
 ggagaggctc agacggttgt ttgtgcttga attgcggctc aagttgtcaa atatcaaac 6900
 tgagaactgg atcatgtagg gaaggcttct gctgcctact ttttattcga tgttgcctgc 6960
 cttgcagatg atggacgtca accaagctgt catctggaat tcgtcgagga cccagcgcgg 7020
 gtgcaggatc aagagccgaa ccatccaaga ggattggggc agttctagca ccaaagcgg 7080
 agggcattgt ttagctgtca ggctagctga gtagcacgca cggactaagg gagagctagc 7140
 aggccatcgc gtccatcggc tgcttccctc ggccaattcg gccaaactgc ctgactgttt 7200
 ctgttcctgg acgattgttc ctccgactgg atttattttt attttcgatc atcatcattt 7260
 agctttctta aggcggggcc cagaaccaca aactgcagta ggtgaatcca ccggcaacga 7320
 ggttagctcc tcccgtcagc tcctagtgt gctggcttac tagggcgatg aatccccctc 7380
 ctccgatcgg acgcatcaat ataactaacg aattgcacga cgcctcaca aactccattc 7440
 ttctttctgc ctccgcagc gaatcttcga caagtcttcc tagaacctgt ctctccttcc 7500
 gtccctgcct tcctaactta tccgttccct gtcgccttgt acctggacat tcattctctt 7560
 caattctact cggcaactaa taattccctt ttctcctttt caggctctgc ttgcaacctg 7620
 gcataccggt cgacataacg gttagcaacg tcgcctgagg aagctcgaaa cacggcgacg 7680
 gaatcaatca ttgtcaacag gtcctctgga tctgttctta gaatcgccgt ttccatttcc 7740
 ctacaggatt tgcaaatact catctcacc tcgaacggtc cccagtcac ccgtgacgtc 7800
 cgactggcac ttcaactgta ccgacgggtt acttgatagc gccgtattc gcgtctagca 7860
 gtccgcatct gttaataata ctgtcatact gagctggaaa ctgcggcgcc gcccccgag 7920
 tcgtgagggt tcccttaggc gctcgattac aaagctataa tcagagtcgg aggttatagg 7980
 attttgcgcg cgggcaacga aaggctagtc caaatcatcg cttgcttggg gtgccagggc 8040
 ttctaagagg ggctttactc gtatgccttc tggttagcgc tcggaaatcg cgttgagata 8100
 attcccattg gtttctttgc cttgtgttca agtggtaggt gttttttgct ttttttgcc 8160
 gcgtcttctt tgattacccc atacaagggt aagaagagac tagacgttaa atttcagttt 8220
 tcggaccagc gtacgggtga ttacccttcc gtcctcttct ttatggtgtc ccgccgcggc 8280
 ttgaggacac tctgattcgc gtacggcgac tgtagcaat ggtgttgaag ttttaagtcc 8340

gtatctgctt ttgagtttca cactaacgga ctttcccttt ctgagtacat agatttctgg 8400
 aattcctgat tattcgcgca actattcgcc atgggttgta tgagctcaaa gcagctcgaa 8460
 gcgggggatg acaaagaagc tatccagcga aatgcgagga tagaaaagag cctgaagaac 8520
 gataagaaaag tgatggatcg gacgatcaag attctgcttc ttggtacgta caaggttgaa 8580
 taaccactgc aaacatgctt atggctatcc caggtgctgg tgaatcgggg aaatcaacca 8640
 tcattaagca aatgcgcate atccactcgg gaggtttccc agaagatgag cgccgcaaaa 8700
 cacgagcagt gatctattca aacattgtgg ttgctttcaa agttcttctg gacattatgc 8760
 gaacggagaa tatcgatttc gaacaagaag gcacaagagt cagtgatagt acctgcctcg 8820
 tgatcatttg tatgctaaag ctaatttgta ccacgcaatt tagcctctag cagaattcgt 8880
 ggacaatcta gagcccgatg tgggtgtcga ggaagcattt tccgaccttc gagttcgcga 8940
 tgcaatgaac gaaatgtgga aagacggcgg agttcagaag gctgtctcga agggccatga 9000
 gttcgctctt cacgacaacc tgaattagta agctgggcga tgagcagttc cttcgattcc 9060
 aaccttactg atgattatgt agcttcttcc attcgctcga ccgattattc gagtccggct 9120
 ggcttccgga caatcaggat atgttacagg cgcgtttgcg aacaaccggt atcacagaaa 9180
 cactatttga actaggccag atgaatttcc ggatgatgga cgttggagga cagcggtcgg 9240
 agcgaaagaa atggattcat tgcttcgagg gtgtccagtg ctta 9284

<210> 3588
 <211> 5046
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3588

aaaattcgat ggatgagtga gtcagcgcac gaggaagaat tagttctaac agcctgtgac 60
 agtccgtttc atagcccat agtaacgttg gttgtgagtc gagatcagcg tcttttcgta 120
 gctcacgaag acattctgtc tcgatctccg tactttgata cgggtgcttag ggatcagttc 180
 ccggccggaa gcgtgaacaa ggctttgatt ttgcccagcg agtatgtata aatgcccggtg 240
 tcagttttta taaatggcat atttaacgca atgcagagag ccagaagtta tgtcctgcgt 300
 tctcgagttc ctgtataaag gtgactatac tccgcgccta caacccaaaa agggccggaa 360
 gacatgggaa ctcgagagct tccaggacgc caaccacccg ggccggcagcg gcctgagcca 420

gtgcgacgac tttcactctg gagtgggaga tctcgttctc cgggatactg cagtgtactg 480
 cgcgggccgag aagtatgggc tcgaagggct caaggacctt gctctgcgca agcaggggctt 540
 gcatactggg atcccaatcg agatcctact ccgggtctgcg cgatatgcgt acgataatac 600
 accggactca gagtcccgtc tgcgcgcccc ttacctggcc atgatcattc ggacccgcga 660
 catcttcaag cgcagcggaa ccatgcaact cgagatggaa atgggacaca agttcttctt 720
 tgatctgttc gttgccatgt gtaatcatat ggacgatctt ggagagatga ggtactcttc 780
 cgtatataca tataactcata ttcagcgcta acattcaagc tctcagctgg aagtgatctc 840
 tcccgggaatc tacatgggtgc acaacattca gaaacagaaa atccaaaaaa aaaaaggaga 900
 aaagaattaa tctctatacc gaattcaaag cacatcattt acgccagatt gccagaacaa 960
 catgcaactt tttttccaac tgaaatttgc gcttttccaa gctggctgcc ggcacggcg 1020
 ccatgaaagt tgcctaatta cttatttgcg tcgactgcac cacgcccatt aatatctgtt 1080
 cactgctctg gtctgtgttt tgcgagttaa agagactgcc aaccacctgc cactgttat 1140
 ttctgcacct ttgtgtcatc tccactcttt gagtcgtca tgggtactta cactgcctg 1200
 gtctgaagag gccgccggga gacgaatata atgtgtgaca tgaccaggta atgcttatgt 1260
 gcttctaaga ctcgagcttg gtagaccgta ggctgaaag ctgtctgagg tatgcccggtg 1320
 taaatctagg ttccagtaaa ctataatcta tagagtctac gcatgctcta gaaggtagct 1380
 acatgtaatc tgcagaagcg gtacacagcc gatcagacag cataatggta gagcattggg 1440
 ctcatattcc tactgtcttg aggcctaaa cagtaatgct ggatgggtt ctcggccaga 1500
 aatacctcga gggctggcgt taggtaaaac tcttcttctt cctctttctg gtggattcag 1560
 taccataacc ctcaacacag tgagacaagt ttgaatgatg agttcgacat caagatcctc 1620
 aacactgtat cattaccag ttaggaagaa gactaggcag cggctgtgct cgtaatgtaa 1680
 gtctgcagca aactctctca gctcacaca tctcgcagc ctcacgtcc actaccccc 1740
 aacatccacc tcatcatgga gccaaagcgc cgaaaactct accacgagtc cgatactctc 1800
 tccttataca gcaacgagtc tgagaccgtt tgcctctcgg atactgagtc ggaaacaatc 1860
 tctgagacca gctgccgcac agtagcccat ttcgtccca gaactccgtc aggattcctc 1920
 tctctcccgg cagagatccg tttctctatc taccagtacg ccttttctc gtcgtcagaa 1980
 tggctctgagc ttgttcaagt cacagtcgaa cgaggccctt cagctccccg ccgcgagcc 2040

tataaaccgt ccccgcacca aaagctgaat ttgaagtaca cccggagccc tgccctacac 2100
cttcccgtcg ccctgctggg aacaaaccat cagatatacc acgaagcggg cccagtcctt 2160
ttctccgggtg ttgtatcggg ctttgcattt aatccgactt ctctgacctt cctccttgctc 2220
gctttttccaa cactgcccgc aatagtatac agtacttgcg gctctacccc gcaccgctat 2280
atgtgcaaaa tggccctctg ggcgatcagc tgtcatgggc tgtgtttgtgc gccaggtcg 2340
ctcgtctacc gtcgttgaga cgggtcaacg ttgtgtacaa tcgtatcgag gatctacggg 2400
taaaccgggt caggtctcag cacgcgcggg atgggaaatg gctggccatg atacgggctg 2460
aaaaggagcc ggaatttgag aggcagacca ctgatgctga gatggctggg tgctgaaatc 2520
ggttctgcga gatcatcgct cccacttggt aggttatatt attctactct aacctatgag 2580
cctctgcttc ccgcttcacc ccccccaaa ctggttcttg agccgaaaca ctgagaaaga 2640
attctccagc cactcatcag gaacctgggg tagctcgat gcacggttc cagcagctgg 2700
gggaccggct aggtcacgca agaagtcct atgttccttc atctcggttg tgacatcgctg 2760
gaacttatat gtatcccctt tgagctcacc tgctccgct cccagctctc ttggtctcct 2820
ttactaggtg gctcgctcc atgtccggcg tgatatcggg ccaccgcgac agcttcttac 2880
tccatcatcc ggaaagcaaa ggcgcctaa caagcccag aaaaagccaa ggatggatcg 2940
ccgattctga aaacatgctg atatgttctt ggtactctgt cggcctttat aacaggctgg 3000
tgagataaga acgggaccga gaaccggtat ccagtcgcaa atataagttt gtcaacatcg 3060
tccagcttgg agccgtcgga aaacgtgagc ttgagtttcg tacgatcctg gccttcgatc 3120
tgaccgattg ttggcctcac ttcgacattc gacaagttcc atatctccgt tatatacgga 3180
ctatgtgagc ttcgggagac atatagtgga ccgcgcacga gcatgtatat atccccaca 3240
gcatcactcg ccgagaagct cctccgaca atcaccactc tcttgctggc gtactgctcc 3300
cgcgaccgga ctgcattcac atgtccagt gtctccggat gagtatttac caccgatcc 3360
aatccaggaa tcttcgggag aaacggctcg ctatattgtc ccgtagcaac tatcaccgca 3420
tcaaactcct cctgccacca taaatccctt tccccctt ccacggcttc cggccgcctc 3480
agcgtcaacc tccatttacc agaccatgtt ttctccactg atacaaccgt ggtctcaaac 3540
gagatagacc cctgaagcca ctcaaccaat tcaaggagat attgcgcaac agtataccac 3600
ggcctcgctg cattcccgtc ccatacctc tccacggata taggggaatt ctctctgga 3660

agtggagtgt gagtaaacgc catcaaactct gcaggcacat tcgtgtctag ccagccatac 3720
 atcgccgtcg gcatttgtgc gtctgagggg acgccggcgt tgcctctgct gggaatgtgg 3780
 acggtttctg tccctgcacc ggactagccg tgctcgggta tgcctctggg aaccgctagg 3840
 gcgtcacatc gtaattccag gttccgccag ggcgatctct tctctcgaaa actcggattc 3900
 tgtcaaacac tttctcgtcg tgcaacgctc ttagggctga gatgcctgct ggcccgggtgc 3960
 cgataatggc tacgggtgggg tagcggcgca ttttctccct cctgctcctc ttcttggact 4020
 tcgaactcgt tcaatgcaat caccggttct tttcttttct tctaaaattc tctccaaatc 4080
 agagcctcta ggggaaagat ttaatctatc catgggaaga atatgaagga gccatagctg 4140
 aatgtcgtgt gatgatgcta tttcgaagca aaagcacgaa tcagggctaa gggcttacct 4200
 atcgtatcac tgactagaca ttcttgcaac tcatgatggg ccatctcaca ctcggtatcg 4260
 cagttaatct acccgaatca taaggctcct ttataaataa tggattgcag atgtcgaaca 4320
 catttcttta atcgttctta aatcataagt tatcgaacca tcaactcgcc tcattcatgt 4380
 gtcaaccgaa ccatgactta ccaaaatctg ccagctccat tgcagcaaga tcatggtttc 4440
 acatgctttt ccgtttttgt tgctgtctct ggtatatcag atcatcttga ttggcacata 4500
 aaccacggtt catgcaatca agatccttga tggacgccgc gactatagta cctgatcaac 4560
 caataagatc accctaacc aataccaaca agaactggat cgaagtggcg gtgcagtggc 4620
 ttgaacgtgg agagtgtaga tttttgcgcc acatattaca tcatcgcca gtgtcacgcc 4680
 caccgtcaca cagccaactc tcatcagaac gctccatccc ggggaatcca ggccacaaaa 4740
 tcttgattag agatttacac ctgaatataa tcgaaagtga tactttaaga cttctatact 4800
 ccagactcca ttagaacaga aaggccaga actgttctga agactcattt cgtatgcagt 4860
 aatttaacag tttcttaaaa gcaaaatggg gacaagtcca atgcgactac cgaccaaca 4920
 caaaggcacc ttccgcctta gagcctgtat aagaacacaa caagcacggt ggtgtggatc 4980
 cacgatcccg ttctgcaccg aggacgaagc ttttacagac attacagcga ttttgcacac 5040
 tggaca 5046

<210> 3589
 <211> 1025
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3589

acacgagtca ttagggcaac acatgcccc agaagttcca ggcagaacaa aaagcttacg 60
accaggcgag cactttgccc aaagcttatg taggccagat cagcatatgt caccaaccct 120
cgggtcaacgt cgagacattt tgccaggatt ttagcggat aagaagtggc aattgctgca 180
aagagaagga acgtcaaacc aaatagccat cggcgtggt tcatggctag cggcaaaactt 240
aggaggccga cgccaatcag cacgttcacc gaattgaata ccgtctgcgg tacagtggac 300
tggtccgacaa caatgctctc tcggttccg tcttcgtgct gtacctgctt gacaagtaga 360
ggctctccct cgtggccgac agcaggctca ctgtaggctt gttgctgctt gtggaactct 420
ataacgtgct tcctagcaga ctgctaacg cgcgacgata ctgagccata ggaagtgccg 480
agggtgggt ccaagtgaca ggagctggag atgccatctc tttggccaga gctaactcca 540
tagtcgtta aaaggggccc agtgagagcc gggtaaggt caacatgtga cgaccctagt 600
gatcttatga aattaccgt tgaagattgc cattcctcgt ctgaatcgac tgttgccaag 660
gaagggcgtc ggggaaacac ctgagggaaa catgcagctc tctgccatga ccgggcgaag 720
ttatcgatac tattgacgcc acccgcttgt ctaaategca tagagaagga tgccgacctt 780
tcgaatgatg aatggggaag atgtggctct ctggaagagg cttaccttga tcgcccgtta 840
agatattcac tttcattagg ctgatggtca gggaaatgctc cagaatccag tggcgaggct 900
gtggatgatg ttctatatga ctgtgaacgc tggcaccag tatggattgt atggcaccaa 960
tacaatatta acgtgatatc cgaggctata taaaaaagt gagtgtggtg tgcaccacat 1020
aacag 1025

<210> 3590

<211> 2660

<212> DNA

<213> *Aspergillus nidulans*

<400> 3590

acggaacatg cagttctacc accattacta gatattcaaa aggtaccaag ccatccgaac 60
cggattcgca gaagtctgaa ggaggaaagg agattatgag gcaagacctg gacgcataac 120
cagaaggctc tttagaaatg gacgtatgca ttttgcaaaa tagtgcaggt tacccaagat 180
acattgaatg tcaatctagc caaaatcgaa caggtagcac tgggtctactt ccccttctg 240

tcgtctccag ctccctctcc cctctcttcc ttctcttccc actctctctt gatctctctc 300
 cactgtttga cttcgttatc cctcagatcg cccggaaaga aagtacccaa cagactcttc 360
 cccagctttt cgtatctctc ctccagctcc atcagcgtec ccataacctt gacctcccct 420
 acgacctcca caaactccag tggaacacca tacgcgggcg gggtcctctt ccacccagca 480
 acaaagatat tctgcagcat tccaattccc ccgacggcga taagatacca gctcccggta 540
 tcgattccgc tagccgtgat cagcaacgca acccaggcaa taccagcac gatcgtcaga 600
 agctgtgcca caacagtaat agtcgggtag tctatcatgc tgaaccccg tgcctaatcc 660
 tcgagatcga gcccgaagcc atccgacacg atcgcgatag catgctgcg tccattcccc 720
 ctcgtcagca caaaattctt cttgtttcga ttatccagcc gtcggcaagc ccacttctcg 780
 accttccact gtgtcaaggc cccggttcca tagcataaca ccgtcgccgc gccagtgatc 840
 atcagcacac cccagtcccc attgattcca gcggggatac tagcaatccc cagctgtagc 900
 accgtacaca gtatgccaga ccagtagagc aggtccttgc ccgggacgcc cgctgaagc 960
 gtcttgcttg gtttatatac actgacgacc aatcctgcct gcgacggccg tggcacctta 1020
 atgccagaat cagggtaact ctcattctcg cgtgcttggc cgaatttcca gcgggcgtcg 1080
 atcaagttct gtgtcttttc gcgaatcgcc ggatgcatcc agtagtcgta gtcgcgcac 1140
 atccggccaa ggacccagct gttgttaccg cggacgtagc cgtttttccc gtttaataaga 1200
 ctgcaccctg tatctgcgtc gggcatgagg cgtactcgc cgagggcaga gcacacagcg 1260
 gaggttgctg aggagacca tctgctatc atttagcaat ccagcaaata tcaggtgtat 1320
 tattgcgcag gactggaatc gagacgcacc aaatgagaat gcaactggcg caatcggtcc 1380
 gccgacaagc tgcgcgagag cgcgatggat tagatccccg ccgatgagca gaagaatgg 1440
 aaaggcataa tttgacggat tcgaccattc ctgcgaaaaa ctgtctgctg tcgcaccg 1500
 gtcaaacgtg cgggatgcga gattctggag gcgctggagg ggtgggagtg gcagcgtggg 1560
 ggccatggct gacctggggg cgtggaagtg aaggaatgag gtcgagaatg agcctagaga 1620
 tgaaagatgc agagctagtg tgaaattgag attatctgca agccaggaag tatagttcac 1680
 ttttgatata aacaactagc atgctgtcgc gctcttgctg cgcagtttga ccggcagctg 1740
 aaaaattcgc ggtcaagagg gctggactga gctgggctgg gctgaaaatg ctcgggctct 1800
 ctcggttacc atgacagtta cataaatata gctagtaaag atacggggat acgttatgcg 1860

ggggttcacag ctctgtatttt gcggcctggt gcacgggaca gggaaagccc tagataatat 1920
 taacgtggct agctggcaag gaacaaatag ataactagtt cgttcaactg gcagactact 1980
 ccatcctatg ctctttctta acccagattt tactaggcat gaatagtatg gagaagagca 2040
 aatagtaaac tctctgagta ttaataacaac aaacagctga tgctttgtag ttggtgatct 2100
 tttgacaaa tgacaaaacc gcccacccc tactccatgt tgggaatagc ctcaatcctg 2160
 caatttatct actgattggg tgatcctcct accagccact tgggccgctt cctcagtagg 2220
 gccgtccgca cagtactgac tccctctggc ggctcttggg tcatccagac ggatgcgata 2280
 ttctgatgga tgactacatg gatcccatcc tctgtctttt cttgaagact cgccacgacc 2340
 gccggtgctg ttgctctctg cttcggaatc tcggatagta tgactgcgta ggtctgccag 2400
 gtctgccact cgacattact attgttctctg gggagctgga cgagaaacca cttcccatcg 2460
 aggtcttgcc ctgagtcgcg agaaccggcg cactggatcg cgcacccgcg ttccacgccc 2520
 gcaaagggct ttccgagccc aaaattgacg agaaagccgt ggtattgggc gagaaggccg 2580
 ggtcgacgga tcgggttgaa agacgcaata tccaaaccgg tctcagcgcc agcagatgtg 2640
 atctttgcgg tgcgaaagta 2660

<210> 3591
 <211> 1689
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3591

gcatacgtac gaacagatgc gctgagcatc gataccggcc atgacctggt acgctcgacc 60
 cagctcactc cctaaaaccc aaactctttt aacaggtaaa caatacagac cacactcgaa 120
 gggaaaacaa gcacgaagca cctcgaagcc gcagtcgacg cagacacagc cgcagcccca 180
 acttccgccc acgaaccgcg gatatcatat atccgcgaac tctccccta cagcggctat 240
 gtcaaccaca tttcttctg gaatacgcta atccgcccgg tctacctcat ggctctccc 300
 gccgtcgtct gggccgtcat ccttttcacc acatgcattt cctggctcgt gctcatctcc 360
 ctactatct ctcaaattct ctccgcacca ccatacagct tctctgttgg tgcagtgggt 420
 gccacaaacg tctcctcctt cgttgctctt cttatcgga cactcgtcgc aggaccatta 480
 gtcgatgggg ttgctcggag gttatctaag atgaacaagg ggatctttgg tatgcttctt 540

tccctctgac cccatccata ccacctacca actggactaa cgtttccatc aacgctctag 600
 agcccgaatt ccgcctccct atcatgataa catacctcct cttcacggca accggctttt 660
 tcgcctgggg cgccctccct tccaacctag acccctggcc cattcccggtg atcgtgtgcc 720
 tgggtctcat aaatctaggt gtgcaactag ggacaacggg cgtggtgacg tacgtggtgg 780
 actgccaccg tgagaaagca agcgaggcct tcgcgacgat gaactttgtc aagaacctgt 840
 tctcattcgg acttactttc tatgtgaacg ggtggatcga tacgcaagggt gtacgggatg 900
 ttttctacac aattggcggt atcaccatcg gtgttacact gcttacagtg ccgatgtatg 960
 tgttcggtaa gagggcgagg agctgggttc atcggcatcg gattgcagag aggctgtaag 1020
 gactctcaac ctttgtctct gagttgaagt tgtggggctt ggttcagtgg gaggttactt 1080
 atcgttcttg agtttgagga aataggtaca taagcgttac tgggtcaaac ggggtccgtg 1140
 tcagggttag ggtttgtggg ataggtataa ttggtatacg gcggatagtt ccttgggtct 1200
 taaatgcaga gtttatatta atacattcaa catttccgca tgggtcaaagt gatcagtttt 1260
 gactatcatg tcatattata ccaagataac ggccatacac cccaccttcc attatcctct 1320
 cgccgtaccc taacctagcc agaggtacag ttaacctgca ggagactctc gttgacctat 1380
 atcatccatt agcgaacact cctcctcggc agacacaggc gggcgagggtg aattgttgac 1440
 tcacattcgt gcaaataaag tcatttgtac cgctcgggct gacaacatca atattctcaa 1500
 catagatatt ggagcaaaca tccggactcg agcaaacaat tgagccgatg ttcggatccc 1560
 gcgctgacga tgctgttccg tacatattgg aaatgtagac gtcagagatg gtcaggttac 1620
 aaaacatgcg tcactgttag caaaggcaac acaatccgac aaccttgggg gatcacatca 1680
 gtcaaggta 1689

<210> 3592
 <211> 11699
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3592

ggccgataat acgactcact atagggatca tacctcaaac cggcttgctg ttgcaaagggt 60
 cggcaaactc gttaacctct gcgctgtggg gttagcggaa tttccgcaac tgagtcggag 120
 atatgatatc gattggttct ggcaaggcct agatgactcg acagcttatt tcaaagcttt 180

gatctcgaat cagaaaggcg ttcattgtcac tgactctgga aaataccagc ccatcgatac	240
atgcagtcta ggagatatca ccttcctccc cggcagatac tcgaatgccc gcgcaatgat	300
tcgcaatacc agcatttcat gtctctgggtc agatcttggtc atagatatca gacatgaagc	360
aaaacgaccc ctctgatgaa tctaccagtg tcaatgcccc gaacattact ccgtatgtat	420
cacgtggatg atcgaccagg gccacccggc gcggtaggta ggctagtgtc gcgtctcgcc	480
gctcagacag gttatctgga ctattgattg ctttcaagtc tcgtctccat ctcatcacat	540
cagtcttcac tatttttttg tccaagacct tgcggtggta agttcttatt tagaaaaccc	600
ttcgtcaaga actgagtgtc agtcccaaga gaaggagtg aaaattgaat caaattcaag	660
aatccatctt ctaccgcagc tacggagact aacgctgtca tttctacaga cgcgttgacg	720
ctcgagcttt aatttgactg caaacgcctc atcgtattct gccacatcat ctctgtcatt	780
cgcttccctt tcattcataa ttgcgtttct tccccatcta atcgttaagt tacctttcgc	840
gagttcgtca ccatttcgtt ctctgcaaca atcatggcgc ttggcaggaa gcgcaagtca	900
gagagcggtt cagttgttga agaagctgga gaggtgata caccttccaa aagagtacgt	960
gaagttgaag cctgtatggt agatatactc atgagtgagg agaatcggtt gcgaataatg	1020
attggaatag atcttggtga tcgcaaaagg ctgacatggt ttccattgac agatcgcaac	1080
agacgccact tcaaccacct ctacgccgcg aacaccgcgt acaggagaga aaagaggtag	1140
aggccgtcct cgcaaatacc ctgtggggtc taccctcggt cgtccagatg gacctaagag	1200
aggtcgcggg cgtccccgca aggaacaac tggcacaggt atctaccacc tttcggttct	1260
acagcggttt tagagtgttt tggttattcg gagctgtatg gtcttgattt atgacctctc	1320
catgtgtcta acgcagatta gctactccaa aggctaaggc aacaccaag tcgaacacac	1380
ctggtggcgt ctcgcggggc cggggaaggc cgaggaaaaa tcctattcct agtgactcta	1440
caccaactgc agatggcaac accgccaacg atagcggacg ttcttactgg cttatgaaag	1500
ctgaacccga atctcgaatt gaaaaaggaa aagatgtgaa gttttctatc gatgacttgc	1560
gtgctgcaaa ggaaccagag ccatgggatg gtgcgtcttc ttcttctgat gtagcaacaa	1620
atggtccggc taattcagtt gcctaatagg cgtgcgcaat cccgttggtg agaacgttga	1680
tggagcaatt aattgaagac ttttctcacg aaaacacagc acggaagaat atgcaatcta	1740
tgaagaaggg agaccttgc ttttcttacc actccaactg caaggttcct ggtattgccg	1800

gtgtcatgga gatcggtcag gagcactctc cagacggtaa gacgtcccta aagtgacgag	1860
gttggttctg atgctgaccc tttattcact atgcagagac tgcctttgat ccctcccatc	1920
catactacga cgagaaatcc aagcgtgaga acccaagatg ggctgtgggtt cacgtggaat	1980
ttcggcgcaa atttgataag ctgattacgc taaatgaact taagtctcac gccggtgcta	2040
atgcgccccct tgagaacctt cagatgctca agcaagggcg gctcagtgtc tcggctgtga	2100
gccacaaga atgggacttc attatgagcc tggcgagcaa tgaggcggca tttggtccct	2160
cgaaggaaaag caaatcatat gatgctaata aaccggccaa aaaggatgga ggcgcgagga	2220
agacagaggc taccggttaa gataaagcaa tgggaaatca agctatttcg tcgcttctca	2280
ggatctaagt tcgctttatt ggcaagcggc attgatttca actttttctt tcatgtataa	2340
tcaaagccac tttcatcttc tagtttcatt gctcctatat ttcccatag ctgcagttt	2400
aatcattctc agcggcttaa gacagcgaag tggagatatt gaggtcaaac ggcagtgcac	2460
aaacttcaga acggtgcttg gtaatcagct cttgatggtc ttctcgaag ctttatggct	2520
cttaaataca gggctttaca gttggtctcc gccatttgac gtctaactga attcctcaga	2580
agagcaagtc tatccgatga ggggcgcgca aggcgccacg catccgacgg ttcttatctt	2640
ttatatcgca tcaactgctg cagctccaga agctctccaa cacctcacg tacctctccc	2700
ctctcttctc ctcttccccg cctatatgt cctctcttcc atcttttctc cctcgattcc	2760
gtctttgtgg gtttcgcaact ctctctttta cctttcagtc tcggcggcag ttttattcac	2820
aattgaccat ggccaccgct gtcagcttaa ctgccccaa tgggcacaaa tacgagcagc	2880
ctattggttt atttataaac aacgagtttg ttgcatccaa gtctggcgag aaatttgcca	2940
ccgtcaatcc caggtatgca tctctggtga tgcacggtag tagctatatt ctaatatagc	3000
cgctagtgat gaagaggaaa tcacccaagt ttatgctgct ggagaagagg acatcgatat	3060
cgcagtcaag gcagcaagaa aggcctcaa agatccctca tggaagcttc ttaccgcaac	3120
agaccgaggc aatctgatgc tcaaattggc ggacctcatt gaccagaaca aggaaacctt	3180
ggccgtcatt gaaacatggg acaacggttg gtagaatttg tcaattttat ctcaacctat	3240
tctctaactt tcataggcaa gccgtaccag gtttccctaa acgatgacct ctcgaggtc	3300
gttaacacaa ttcgctattg tgccggatgg gccgataaga tccacgggca gaccattagc	3360
acaacaccgg ccaagtttgc atacacccta cgtcaaccta ttggcgttgt tggccaaatt	3420

atcccatgga atttccccct agctatggct gcatggaagc tgggtcctgc gttggcctgc 3480
ggcaacaccg ttgttctaaa gcctgcagag cagactccgc ttagcatctt gtaccttgcc 3540
aaattcatta aggaagccgg ttttccacca ggtgtcgtca acattgttaa tggccttggc 3600
cgtgtggcag gatctgcatt ggttacccat ccaggcgtgg ataaggttgc ctttactggc 3660
tcgaccatga ctggttaagga aatcatgaag atggctgcag gaaccatgaa gaatgtgact 3720
ttggaaactg gcggcaagtc acctctgctt gtttttgacg atgcagacct cgagcaggcg 3780
gccaaagtggg cacatatcgg tatcatgtac aaccaaggac aggtctgcac ggctacgtcg 3840
cgtattcttg ttcacgaaaa ggttcacgat gaatttatca gacttttccg cgaggccgtg 3900
gcgactacca gcaaggttgg agaccattc tcagatgaca cgttccaggg ccccagggtt 3960
accaaagccc aatacgagcg tgttctttct tacatcgaga gcggcaagca ggagggcgcc 4020
acctggctg acggcgggtg ccatacaag aacgtcaagg acggcaaggg tttctttatt 4080
gcgcccacaa tcttcacaaa cgtcaaggac aacatgcgca tttaccgca ggaagtgttc 4140
ggaccgttcg tcgccattgc cagattctca actgaagagg aagccatcga cagagccaac 4200
gacacaacct atggactggg agcagccgtc ttcacgaagg acattgagcg agcccaccgt 4260
gttgcattctg aaattgaggc tggaatggtg tggatcaaca gcagcaacga cagcgacttc 4320
cgcgtgccct ttggtggtg caagcaaagc ggtatagggc gcgaactcgg cgaagctggc 4380
ttagaggcgt acacccaaat caaggctgtg caggtcaata tgggaaccaa gctgtaacct 4440
gtttctgatg ttaagatatt taaataagga atataaatga caatttacga gttttcggtc 4500
cgaataacta tcatattggt tcttatacta tacgctgtat gtacggtttc caggcgatct 4560
gaattacagc ctgatgccta tttttatttg tatgttagcc ttcgagctag agcacagcat 4620
ctgccatata tgcgggtatc aagaaacata tatatgggct tacatttcta tctcacggga 4680
tacagtcgct atctaactat tcacgttccg taggttaaat acaagaagct aactcttata 4740
tcaacatcac aaccagaaac cgtatttggt gtctgtctc taactgagca tttgcagggt 4800
ttcgacgggt tgcgtttggt atcaatgaaa ccgtaatcta ttcaatacct acgaaccacc 4860
cggctctctg agcttaccta ggcgttccg cctaggtaaa gtaggtaacc tgcgtgagtg 4920
tacatggaaa gcagattcct gtggttctga ccgttgtcaa gacgggctct ggccgttccg 4980
gtgtcccggc cagcgggcct ggtccctcaa ttgacaagac ctcggatagt actgagggtc 5040

cagttaggca tatacgtaaa ttagttaaac gctcagcaag tacttgtttt tatctttttac 5100
gatgcatttt ggacttgcgt tctttcttct tctgctccag cctgccgaag ccctagctcg 5160
tattaatcgt cccctacgc agacgaacca ggggatagca agctgggtggc gtaccccgat 5220
tgctggattc aagagacacg ggcttctatt gaaaccggtg tcgctgcttc atgcatcggt 5280
aacttcatgg tcttttagcat agcgtgggtg tttctcatcc agtcaacttt cccagggacc 5340
cttatttctg cgaagaatgg tggatgattg cccacgaact atgcaaactg gacgcccga 5400
ccggccttca gcatggacat ccctgataga ctttaagacc atgtttgctg cgatacaaac 5460
atcactacct gatcttttcc agagtgggca agcaggtgag tgcagaaagt gccgagaaga 5520
catgcgccct gggctgcctg atggcttggg tcgagatcca cggacctgct taaataacga 5580
aagtttgctc atttgtaagc catggaggca tagccatcta ggaaggattt ggggcgttgt 5640
ttgcttccct ttcgtcgta tcggtgcgat acgccacgtt gcttcgagcc tgaagaactg 5700
caagtgcac ttggtaaatc gatagtacca gtcggatttc aaacaagctc agctgcctgc 5760
attttaggca cgtagcccag ctgaggaagc aagcaagcaa gcaagcaagc aagcaagcaa 5820
gcaagcaagc aagcactgc agtagccggg gatcgctagt ctaacaggcg acagcgccca 5880
ccccgaccat gcgtgcatac caaatatgca tgtaatttcg gccccagttg cagggttgc 5940
agccctagca taggtgctag accctttgct ggcagtctca cccttttccc caacgtgcag 6000
atcgaggtgt cagagagcgg agatggcaac agtccgagcg ctaatttcca ctgaatgaga 6060
acagagtggc gcatgtttgg atgatgtcgt ggcgagtcgg gaccaggtag tatgtttcat 6120
tgctacctaa tggcttatgt atcgacttgg agctcgagaa gacggcgccc gcttcagagg 6180
aagtctatac aagttaactt cataaagcgg tggtaaaaat cgacgagttg aggcaggaaa 6240
ggaaaccgga acattcatgg gcacgatgcg ggataacccc ggaacttcga agcgttggtt 6300
ggagatgtac acaaacaagg agttggccgt actgggtact ttgcttttag cggcatgaga 6360
caccaaagag gaggtactat gtacctaagg ggacctagaa caggttcgaa ggtgccccaa 6420
ggttgtaata aataacagcg ataccgtatg cgtatggttg ataccggtcg ttacaaagta 6480
cgggaatagt tactagcggg gcgtgagaaa ggagctttag ctgcagttcc attcagctta 6540
tcatgcatgt cgagcccatg taagatacgt tgtcttgcag gaagaattga tcatgtgagt 6600
gagagttggt gcgccatac ccaaagtatt taaatcagat gcctaccagt ctggctgcct 6660

gctgcagcgt tgtgggaagg catcgcgccg ttgatcaagg ctcgctcaa ccgactaatc 6720
ttggacttgg aggttaggtt ctggaatcgg agcagattga aggaacaaat ttaaaaaatg 6780
aaacaagaga aataatgatt aaaaacagga ttgaacgttt tagctttacc tcaccgcatt 6840
ttctgcgtac tccgtacgtt ggatccagcc aggggaaggc agagccgact ttgttggtga 6900
eggcttgggtg acatgaagtg gaacattact ccggaatgtt gtccagaatt gagaatccga 6960
agagctatct ggctctgcaa gcccgtttgc ctctgcagg tactattctt actacatact 7020
ccctgcgaaa actgtctccg caccagctga tgcaccatcg tactgcatga tgactaatcg 7080
aggtcgaacc taggggcagg cggtagccga gggcagtatg ccgcgacagt aattgcctgt 7140
cagtagcgggt cctgaccctc gacccaacag cgggtttcgt tatggtctat tcccaggagt 7200
caaacaacca tgcaaaagcc cagtgaagct ctttgggtgtg tatcagccaa gctgaaaacc 7260
gacaagatca cgtctttgcg gctaggtggc agcaggaaaa gaggcttctg acaggteccac 7320
gatcgagcgc caccggtgac gcgcggcag cgcactggcg ggcccgtggg ttcacattcc 7380
ccaagggcac agataacaag atgcattgca gaggctgcat ctaccctgt gggaccggtc 7440
cagccccggg acaaacaggg tgaaagggat gggggcgag tgctggaggt agggaccatt 7500
gtgagggca aattccctta cacaatggct taaaattcgg aagtaacggg tactcgacag 7560
tgggcatgta catgcagtcc ttctggaaca attactgcct aaggaatcaa tgatccgcat 7620
ccgaagatag gggtagcga ggtcctggcc agcgagtac cagttccctg tgcgcagtgg 7680
acattgctgc tcaaatgcta caggcaggcc gagcaatcct ctgacgggtg tttgacagca 7740
tgcaaagaca ggtagctccg tatatgtggg ttgcttgaat cgtgggtacg ccagtagtat 7800
atgcaattcc actttcaagc atgttgctaa catttttggg agcaaagagc cgaaaatact 7860
cagacagga atctctgcgc gtggggctct tgtgtactgg cctagttcat ataagttatt 7920
tagcctgcaa tattttggaa tattgcatgg aatcgctgc cctgtttttg aagagcttcc 7980
ataactagaa gccctagaga tcgagaatca accgaaataa acggtgaatc ggtagcatca 8040
ataagacaac aactgaggac ctaaggaggt gtccccgcct caatgaccat ttttgcagct 8100
cgatcaatcg ccccttctg ctcccgatc ccaataaat cagctgcaac aaaagtatca 8160
tgcggcgcat tatcaatctc cacaaactca accctacacc ctctcttttt cagattagtc 8220
ataaactcaa cgtgggaatc atacaacacc tccgcacgcc cggctctggat aaagatcggc 8280

acctccatct gaaactcctg tcccagtgagg ctgatgtatg gatagaatgg gtgctcccta 8340
 ttccacccgt ctggaatgta acagcgtagc cccagtcac ccaacgcgtc aaagagaaag 8400
 tcggttgaga cgttcgggtg acggtcgat tggtgcttc ctgggggtgcc gagatcaacc 8460
 caggggctcc agagtaggac cgcgcgcgga agcgggaggt gatgatctgc agcctcgctc 8520
 ttgatgtatc gtagaaatgc aatgaccaga tttccgctg ctgaatcccc cgagagcacg 8580
 atgttctcgg gggccacgtc aagcgtgtac aggagatatg tgtaagccgt gaccgcgtcc 8640
 tggagagcgg caggggaagca cgtagtgca tcacgtgaat tcgacagtcg gtactggggc 8700
 atcaggaccg ggcagtccag gtccttgctc aatgcaatgg gacctgagca gaatgcgtct 8760
 gcggggcgag cgcggcgag cacgaatgcg ccgccatgga aatggaggac aaccagcctg 8820
 ggcgtcttgc ctaccggtgg cggagcttca taccagaagc cagcaatcgg ggccgggttg 8880
 atggctgggt tgctagcgag gacactgacg taaggggagg agtaacggtg ctcgatcttc 8940
 tctggatcga tgaacacaaa gcgcgccttg tctgcgcctg gttcaagcgt tttgggaagc 9000
 tggaattcta ctgcagtcgc aaaataaaac cagaatctca tcagcctcgt cgtcaatgcc 9060
 aggcggtaag ttcggccgga tcggttcgat ggtggaaggt agtaaaggc agcaaccagg 9120
 acgcgcagtg gcaaagtga gaggtaatat actgtgaaga gaaacttgaa agggtggcgg 9180
 gtaaaaagag acggcgacgc catgatgaga agattgaaaa ctctgagat gtaaggctta 9240
 gctcaaggga atcgacttta cccaaagatg gtttttatat gttcagccag agtcgagcgg 9300
 ggaacaagca aggccgcaag gctgcaaagc tgacagacta gtgcggctga agcaacgagc 9360
 ttcggaaact gaacacctaa acagcgctcg gcaggtgacg gaaaatttat gactaataac 9420
 gcaaacctac agggctgatg ccgctgggaa cgaggacgag tgtatgtgtt cgcagctagg 9480
 gctctgggca agatgcggca atcaggttcg tgtataacct ggagctcttc aatcgttgca 9540
 agtgctgct gaaatgtggg gtatttgaaa tacgtacacc gaggtgagc taattaggac 9600
 gctctcgctt tcagctactt ctgtttattc aatgagaacc ccggcagcga atctcgtaa 9660
 gagtggcctt gcttagggca tgacgatgat tttagtgcag aatggtgcag aaccgctctc 9720
 cgctctggaa agaattgagc ttaacgagca tggagcagct aagtactaag aaaagtctgt 9780
 ccgactaggg caggacagga cggagtttat ctggcacgat gatcaggttc agacaaggca 9840
 cgaggtcagg ggagttgctc ggacctgctc ctgcttttaa cagagacgaa aggtcaggta 9900

caggtagttg aacttcaatc tttgtgtgca caaatgctga ctgctgata caggtcctaa 9960
cccaacgggtt ttcgagtgtg gagtgactga gggctgcagt tatcaggaga aggtctattg 10020
gtcccatct cccttggeat ttatctgaca gttagccata cgcaacctag ctctgacctg 10080
attaatgcaa atcagtaccc acgccgctgg ccgatctagt ttggcgaatt cgtgctggag 10140
gcggaatgtc agcaagtcaa gaatcaacta tctcgaaagc atacatagga ggtataagcc 10200
ttagtctgca gtaggaagac ctggctcgga gtctgacaac gacgaatccc ctgaagccac 10260
ttaggagaaa gagtatatgc agcacctggc catcgtgttg gggccccagg ttacacaaaa 10320
gttgacttcc aaggccaaat attagtgatc ctaacaaata ttaccctgtc agacagtaat 10380
cacagccacg gtcagcggtt tcaactttgta gtgggtgcga ctatccgagc acataaacia 10440
gaatttcttc gggggatgga cctacaaaag cacagagtat tcggaggagc cagttataga 10500
gaatgagttg tagacggcgg ttatatgtta ggatcgggcc atccagcctt tgagattttc 10560
cagctttttc aggtgtaaag caaaggttat attggctcat tcgtctgggt gaatcacttc 10620
cgtgttgtat aacacggcct ataactagcac cagtagtcca taccgaccg acgttatcgc 10680
aagggcgatt agacccttcc agctatcttg atcttcatag atacggtatc caagtaattg 10740
tgcaacctaa tcaataggac tgcattctgt gttgactctt atagaattgg agaacctcag 10800
cactctccaa cgtctccgtt ctctcagcgc attttttgaa tgactaccat caacagctga 10860
gcacaatgct gcagcacgtg cagatctaga tcacgccgcc agatgccgta cgcttccctt 10920
cgtgagcatc ggttgagctc aggaatgatc tttgcggttg cagtttcatg tttgacatat 10980
tcctccacga ccgaagacac tgtaggtatt gatgttacag atcaatgatt accacgacct 11040
acttgaggca cattcgggtga actttaatat cataagccca gttgttatta gacttcaactg 11100
cagccccagt gggacagcga tggtaaaatt ggacagggtg tgtcaaagcg ttcaacactg 11160
caggccctgg atctgtgacc acaacgaaat ctgtaaaatg tcggactgaa ctgacccaag 11220
gccctggcca agccgcgatc ataagggggc ccggctatcc gaaccctaac agttttgaca 11280
aattgatggg ccggggcctg tgggtcagaa gatcgaacaa atataactac cgatgtcctt 11340
ttgcaatgat gtcaagtgtc tagatgtgcc tcgaagtcga ttgaacgtct tgaagggtcaa 11400
gtgctttttc tgcttctttc catacactat tgaggtcaat gcatattggc agtgccgtct 11460
taaagcgcta tatccggaca accggaggcc cggtgaaaca gcttcgcatg tgtaggcac 11520

tggatatgtt aggggaaggag tctggacaat atctcagggg ttcgagagcg catcttccgt 11580
 ccgtaaaaaa gcctttgctg tgggtgtcatg ctcccagggg gcaaggcaac aagcatctgc 11640
 atcaactgcc cctgcgtatg gcttgaagga tcttagtatt ctataggtca cctaaatcg 11699

<210> 3593
 <211> 6993
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3593

ttggcgtgac gtaccagctt acaggtttga tcgccatgga aagggaattg ggaatgagtc 60
 agcttataga ctgtatgatg ccggattcgt caccttggat gtctcaagcg gcccgatttt 120
 gcgctgctca tcttgccctg gatattgttt acggccccgg ctggataatt atggggggcca 180
 ttctgaaagc cgggtgtatac agcgaaacat cggctggaat aacggtggta taccacattc 240
 tgtgtggcct cgccttatca tctttctcca ttttcggagc ttcgttcttc aggaaggcgc 300
 actcagcggg atactctgtcgc tcttgccctg ctttctccta ggcgtggtag cccagatggc 360
 tccagcaaaa agcaacggcc cgggtgtcat tcttggtctc ctattccctt ccatgaacta 420
 tgtttacttc tcgatattcg tggctcgttg ggaaagggaa aattccgctg caatactgac 480
 ggaatccgcg ccaaacaacc cgtggagcct ccctggcgtt gtgttgtggg tgctgttgat 540
 tcttcagatc attatctacc caatgctggc cgccgttggtg gaacggatgc tatacggcac 600
 tgcttcgaaa aatcgacatg tttccagttc tgggacttct gctgcgttaa gcattcgcaa 660
 tcttaacaag atatatcggc cgggatggtt ctatcggaca ataggaccat tgttcggtag 720
 caaccgccag actgttcatg cagtcaacaa tctctccatc gacgtcaata agggtcagat 780
 aatggtcctg cttggcgcca atggatcggg aaaatccacc aactggatg ccattgctgg 840
 attaaccaag ttgtcatctg gcgatatcaa catcaattat ggtacagaag aaccgggttt 900
 tggctctctg ccgcagaaga atgtgctttg ggacaatctg actgtcaagg agcacgtcaa 960
 gatcttcaac agactcaaat ccaccgggaa agttgatata gaagaacaaa ttatgcatct 1020
 cctaagagac tgcgatcttc agaaaaaggc caaagcacgc tcaaaaacac tttctggagg 1080
 acagaagaga aaagtgaac tagctatgat gtttactggt ggctctcaa tctgttgtgt 1140
 cgacgaggtc tcttctggcc tcgatccaat atcacgaagg aagatatggc atactttgtt 1200

ggcagaaacc ggctccagag caataatcct ggcgggcgcaa tatctcgatg attcttttctt 1260
 gcttgctgat catattgcca ttctgtccaa aggtgttctg aaggctaagg gatctagcgt 1320
 tgagttgaaa aaccaactag gttctggata tcgcattcat gtcttcaatg tccttggatc 1380
 cgaaagggcg gttcaaaaac ggtttagcag catacacaaa gaagtccact ttgacgaaac 1440
 tgtttaçaca gttcaaaatt ctgctgaagc tgctcagttt gtctccgagc tggaacagga 1500
 gggtatgatg gagtatcgtg tcagcggggc tactattgaa gatgtttttc taaaggtcgc 1560
 gagcgaattg gatttcgagc cctcaagagg ccgtgttcga gaaggcgagc gagcagcgga 1620
 tcattcctct gaagctgatg atgagaatat tgagcgtcgc tcgctccatc ttatgactgg 1680
 ctgccgtatc ggcataattc tccaggcatg gtacttgttt cgcaaaagac tgactatcct 1740
 ccgccggaac cctcttccct atcttgccgc atttatgatt cctgtgatcg cagcaggcct 1800
 cgtgactttg tttctcaagg ggttgcgagc caggatgctc gggagaggat tcctaccgaa 1860
 cacctgaatc taccatcgca gatcaatggg ataacttgct ccttgatgatt ggcccatcag 1920
 acaaagtga gccagaactt ctagagagct tcgtggctc aatgaacgat caatcagacg 1980
 ccgtccagtc atctagtaat gcgtcccagt tttatattgt ggacgactac ccagacttca 2040
 gcgattatat aaaagccaac tattccaaag tgaccccagg cgggggtttac cttgggggact 2100
 cctcgtggca gccgaccatt gcttggaag gagataatgg caatttccct cttgctgcgc 2160
 ttacgcagaa cgtgctagat cggtttgcaa cagggatgct cattaacatc ggtttcgact 2220
 ttttcgatat tccttcaacg ccggacttct acaatacctt gcagcttggt gtatactttg 2280
 ggcttgcatg tcagtttatc cggctttctt cgcactatac ccaacctgtt gagcggctga 2340
 ggaatgtcgc gcactccagt tcagcaacgg ggttagggca ctatcattgt ggctggcata 2400
 tataccttca acttggtgca agttgttgca tcaagcgttc tggcagtcac cattttcaga 2460
 gccgtgacta atatctggta ccatatcgaa tatctatttg ccgttttctt cctctacggc 2520
 ttatgtggta cgttatgcgc ttacctggtg tcaactctta cgaaatcgca actcgcagcg 2580
 tttgctttcg cggccggttt tcagtgcgtt atgtttctca tctatctcat cgcgtatatg 2640
 tgcgtcctga cctacgcac aacggacaag attgactcgt acattgatat aacgcactac 2700
 actatcgga tcgtttctcc atccgaaaac cttctcaggg ctttgttcgc ttccttgaac 2760
 gtgttttcta tactctgtcg aggctctgaa ggtcgagaga tagcgtccta ccctggagag 2820

attggtctct acggagggcc tattctttat ctattcttc agtcaatctt cctcgttggt 2880
 cttcttgtat ggattgaagg cggcactcct ctactttcct ggttacggcc taaatctagg 2940
 caacgcgacg ttgaggagaa agaactcatg gacagcgata tcgcgaggga aattaccgt 3000
 gtatccagtt cgaaagataa tctccgtctg ctacatgtca gtaaggcatt caagaagttt 3060
 atagctgtgg aagacgtcac attcgggtgc ggggcaggag aggtcttcgc ctttctcgga 3120
 cccaatggag cagggaaaac gaccaccatc tccctcatcc gtggcgatat acagccaaca 3180
 cgtaacgagg gggaaatatt cgtcgaaaat atctctgtcc tgaagcagcg cgctgttgcc 3240
 cggctctgcc tcggcgtttg ccacaattt gacgcgatgg accaaatgac tgttcttgaa 3300
 cacctcgtct tctacgcccg tattaggggc gtgccagata taaaccacaa tgtcaatgaa 3360
 gtaatcaatg ctgtcgggct caagcaatta aggcacgcga tggcggcaaa gctttccggc 3420
 ggaaacaaac gcaagctatc cctagggcatc gcgctgatgg gaaatccttc tgttctgctt 3480
 ctagatgagc catcctccgg catggacgcc gcctcaaagc gtgtgatgtg gaagacacta 3540
 acggccgttg cacctggggc ctccatagtc ctcaaacac attcaatgga ggaagcagat 3600
 gctctggccc accgcgccg tatcatggct agacgtatgc tggccctggg aacaacggat 3660
 gcccttcgtt tgaaatatgg aaatatgtac catgtgcata tagtcatac acaagcacca 3720
 catactagcg atgaagacat ggagaagatc cgcggctggg tgaccgataa ctttccaggc 3780
 gccgttatcg agcagaaaac ataccacgga cagctgcgtt tcagtgtccc cgcgggcac 3840
 tccccgaga aggaaagagc tgctcacagc gacgacagca agggctcatc ttatcgtgat 3900
 attcggtaa ctgatgagct ccgctctgtc tcgctgcgtt ctgatgtctc gattccgctc 3960
 gggttaggac cagacacgga aacggggcca ggaaacttca gagccagaag tgggtgtcagc 4020
 aagctttttt ctcaactcga acagaataag gccgcactgg gtgtggagca ttactctgtc 4080
 agccaaacga cactcgatca ggttttcttg acaattgtcg ggaagcatca tattagcgag 4140
 caggattctg gctaactgct taccttcgaa gagttgtgtt gcgttgtcac gttctttttt 4200
 cttttggaaa gctcgttttag ttagcattct tgtacatata gcatctagta tatactctgac 4260
 catctcaatc gtaattactt ggaattagac gcatacaacg tccggcataa tgagctaata 4320
 tctttatagc tgtggctttt cgtcccatct tataattttg ctgactctat agaaatagaa 4380
 ggcacgcac tcgccattag acattgggat ccgcacgttt ctatcagctt gtatagccat 4440

gacttgatag agagcctttt attcagatat catatcaata aaatctttgt cttttttctg 4500
catcatgagt aagcatcttt gtcataatg gacacggcca gagcatcatt tgtaaagccc 4560
atgcaaatcc cagcagctga ggcggtttcc aatgatcaag tttgccaacc tagatgaaat 4620
tggaactatag tctgagagct gtgttttcgg ctactgtcaa cttatggctt tccatcgcaa 4680
ctcaagagca gtatctgcta aaccttagga cagtcatgaa tactccctcc cttccccctt 4740
ctctagacat cccccatttc attctatact accgctccgt tcataaaatc ttgcttgaca 4800
aactatattt tgccagcttc aaacatacaa cagctctgct ccaatgccct accttaagag 4860
ggacgctccg ataagggtcg ataaatgcta ttactcgggtg tggagctgag caccataacc 4920
gtcatctggt gatgtccgt tccatagaaa gacaacggta ttggatactt gggatctgga 4980
atccttgccg ctaatagacc actactgact actacacaga gacgcacgga cgctgcaagg 5040
cctttgcctt tgcttgccgc cagagaacat aataaagacg atcacttctc gcagacagcg 5100
ctgattattg cctcaaagga tgggaataag cggtttattg agatactact gagtgatgtc 5160
tggttgaat aaactgcaga ggtccagata gaaatgccac atcgcgtag aatggacgtc 5220
agattatcgt tcgagtgtcg ctcaaattgc agcaagggcg gaggtgctga taccaagggg 5280
acgacagttg ctttttggaa tcaccacgag agcatcgtgc gtttgctgtt tgacgggtgca 5340
acggtggaat tctccccgt ggctaaactg gaaattgggc gagcttactt ttctacgctg 5400
ctacgcgtgg gcgttagcag atgatgagaa tactggctga gtttggata gactttggag 5460
agaggataca agtccgttcc tgcacgtaat ctgcacgttt agcacaattg attgcgcagt 5520
tggttattat ggaagcagcg gagttcagag acaacactgc ctgggtgcca atgttaacgg 5580
ctggcgtcgg gatgctctta agctccatca aacggcttcg acaaggcaag agcagacaat 5640
ctatattcag ttgctaatta aacctacgtc acatcctagc gtggctgatt ggggcatgcg 5700
aacatcgtcg gattgtttct tcatcaaggc gcaggtatca atgcctcggg gcccaaagga 5760
gatagaatca gcagcttcaa tctgcactga gtggacggcg tggccaattg atcaaagcgg 5820
ttgcgacaaa ggggcacaaa agcgtagttg ccaagcagca tctggcacag cgacctgatg 5880
atggagtggt cgccggaggc gtcgctcgac gttccctagg actgctcaga aaacatttgt 5940
aatccgactg tttgtgatgc gatagcaact tcaaacttga tatataacca cttgatatcc 6000
aatgaaaata aggcagggga gatgaccatc ttctagaggc aagcggattc cagtattccc 6060

aagccccggcg tcgacccatc gttttgaatg caggctgggtg gagtagcaga catgactgta 6120
tcaacgtcga tctctttctgg aaccactatc cttcttgtga aagagcattg aagagcacga 6180
ccccaggaaa cgggcgaatc gctaataagg cgctctacgc ccttcgtcct accgccccaac 6240
gccccacgcc ctatgaccgg ctggccgtcc cttgacaccg tacagtatag cgatcgagcg 6300
aggcctagat actcgggtgcg tcaggccccag gtcactctggg ggactgtagt attacagaaa 6360
acgagagaat gacctacctg ccaatcaatg gagaagagca gaagaaattc tgatcttcgc 6420
catagccggg ctcgctatac gagaatggca aacaccagag ctatgtatga tgcattgatg 6480
attgtaatct gccttgtata cacgaaaatc gaagagtatc gccagattcg atagataacg 6540
ctcgtcaggc gtccgtggaa gtgctgggtca tgcggtgaga gtaggctact gcagtgtccc 6600
aagtccacgt tttcgtggca tacgagtcgt ggctgcagca cgagaccgtg agtggctgga 6660
gagatacata agaccgggat tttgcttctt gcttcgagta agaaacagaa gaaaagcaaa 6720
aaaggggtact gtgaaatgcg tcgatattcg ttgcgtagac cttgatgtgt tccctcagca 6780
gaagccaatt aggcgctttc cgaggttctt ccggggagat tctctctagt ttccatccat 6840
ctccatcctt cctccacact gcaccgacct atttctatct tctgactcat agagcactat 6900
actccgtatc aattcagata ctgaatccaa tgatttcacg ttgaaatacg cgccgctatt 6960
tgttttaatg gaatggatgc tcagctgctt ggc 6993

<210> 3594
<211> 8161
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3594

cttctccatg atctatgagc aaaaggcccc gtatacggca ccgcatatgg caaccgcgct 60
gcaccccgcc ataacattca cattcacact tacagctttt atacgggcgt tatcgtttat 120
ctggatgaat atctgcatct cgctatataa cagatgggtat aagctttgct tggatacacg 180
caaacaagac actcaactca acagtttcag tgtaaact ggactttcag aaggctcagg 240
cttctcagac cgcacacct ggtaccgcct cacattcctt cttgagcgaa ttgccttccc 300
agttgcaggg acagtattcg gagctgtccc acaattcat gccgtcttta tgcatttccg 360

gacagacagg ctggtgtatc gggtagtaa gaagccagcc tttgtggtgg cggctctgact 420
gggtaatttt ctgtttgggt attacaaacc atcaaccac agcttgatat gtgttttagga 480
catcaacgat acctttaatg atggaatctt cgtgcttagc aagccaccaa ctaaaccatt 540
ctagcctccg ttggctttga aaagaatccg cctacatcta gatagatagg taggcagata 600
gcagcttcat gtcggtctcg gatacttgca tttgtttgtc cacggtctca ggcttccagc 660
caccatctgt tacaggcgat actacctgt cctccaagct aagtaaaaat gcattggatg 720
caacatcgcc ctgtgagcag tgccctcttg catcgttgc catgctacta tgtactgtac 780
tcagccacac ctcagggtcca gacagtaggg ctgcattgca tgaataatta ggctgcctga 840
ttaatgtcag gggcactgca ccccttgctg attaatact ggacggatcc ccattaatat 900
catgctcatt actaacagat aagacgcaat gatcatacga aggacacacc agtggcgctc 960
aggagcctta ctctatggcc ttactctatg gccttgctct atgcttgact aggaagttgc 1020
tccatgtacg gtccagggga ccagctctgt accagccagt attgtaatcc cttgcccgctc 1080
tgattatatg caattgacct cgcgactgtc cggctttacc aggtcttgtg ggtagtttg 1140
gcctcgcta aacatgaaca aagtggacaa tgattagaat aattaaacct actctctatg 1200
gagtagtcaa gccgtgtctg gtctcttcag taggttcttc ttgtaccagg gtgcaagtcc 1260
aagcccgtag ttacctagtc tggtagcgt gacgcatgag ctatagagct gctgcccac 1320
agtgccggt agacatcgac tgacaaaggt gatgagctta agacttcaaa ctagcccttc 1380
agctcttggc gtttcatttc agccactctt tgaggaacga agtctgaact cgctagccag 1440
acagtgaatt catttcgtct tgtgggaaag gcatcatgtc atatgttgct ctgctatttc 1500
aaaactcgta cgcgacttcg cggcgcagta tgcccaacaa tatgacaacg gttctgagta 1560
atgcgataaa aaggttcagt ctttcgaaga tgacgcatag aacctctctc tcgaccaatt 1620
caggcggcgt caagcatccg tttagaacat ccatgcggga gtgagacagc ggtaagctct 1680
gccacaatc atctgctgtc caatgctgtc atgattgata caaatcttgc acgtattctg 1740
ccgcagaggt ctctccgcaa cagaagtagt agcttgctgg attatcgtga cgtatgttac 1800
atcgagatgc cccgcgtcc agcataagtc tcgttaagcc ctccgcattt tgatgcccgg 1860
gtctccagat tgcacaaaaa ggaagttcga ggcgatcatg taaacgcggg gtgttatcgg 1920
tggcggaccc acgtcttggg aatagtggcg accttgccca attgggaaat atatggggct 1980

tgcccagata ccctagtgtt acccgggccg gtgggtcgga ggagtttttc atatcttagc 2040
 ccactatcag ccagtccagt ttctgccttg agcctgcagt gtatgatctt gcacaatgga 2100
 gaaggaatac cccgacgaca gtcttgataa ggctcctatc agagaggatg cggctctttgg 2160
 tgaaatcaga gaaggcggcg tcaactaccg cgatgtaagt ggcccatggt cgttttgaat 2220
 aagattgacc taatcaagtc gtggtcaggt tggctggaag ggaacgacag cttgatgat 2280
 gaagggccag ctggggctgg gcgttctgtc tatccccag gtcttcgaca cagtcggcct 2340
 cataccgggg atccttattg tgttggcgat ttctggaatg accggctggt caaactggat 2400
 ggtgggctgc ttcaagaggc gccatccaga ggtgtacgga atcgatgatg ttgggaggat 2460
 gctatttggc cggattggct tcgaagtgtt ggggtcgggc tataccttgc gtgagtgata 2520
 ttccgcatat gctcttttac ttgctaagt tcccagtttg gatttttgc tcgggatctg 2580
 gcatgttgag cgtgtcaatc gccctcaacg ccctctctc gcacgccatc tgcactgcaa 2640
 tctttgtggc catttgcgct gttgtcgggt ttgggctttc gagtatccag accctcgcca 2700
 aaatgagctg gcttgccatg ggtaggtacc gcctgtatca ttgttcggg tgagtgtctt 2760
 actactcttt gtagttctct ttctgaccg gtcccagtg ccacggtaac aattgccgtc 2820
 ggagtccaag gccatcctcc cgcaatcgac ggcgtcgtac ccgaggctga ctacaagctg 2880
 ttcaacagcc ccagctttgc tgaagccatg gccgcggtct cgacggtgtg cttgagctac 2940
 gccggaacgc cggcgttctt caacattgca gccgagatga aagaccctag gctctacact 3000
 cgggcccttg caatctccca ctcaatcatt acggtcattt acatcgtgtg tgggacggtc 3060
 gtgtactact actgcggttc tcatgttgca tcgccagcgc tgggctcggc aggggcgctg 3120
 atcaagaaga tctgttacgg tatcgccctg cccggcctgg tcgtttccat ggtcctctc 3180
 cttcatgtaa agtcctctcc ctcttcgaat gaaagcacgc ttcgctgact ctcccagcta 3240
 cccgctaaac agatcttcgt ccgcatgctc cgcggctcta aacatctcac atcccacacg 3300
 ctgatccatt gggtagcctg gttggggctg accttcgctg ttgctctgat tgctacata 3360
 atcgcgagcg gcaccccagt ttttagtagc cttgtctcgt tcgtgggcgc cctgttcgga 3420
 acaccgatgt gcttcacgac ttttgggtgt atgtggctat atgataactg gggctctggg 3480
 acgtcgggta agccactaag ctggtggttc aaggctctgt ggagcagttt catggttctt 3540
 gccgggtgtc tcttgactat tgcagggacg tacgggtcta ttgttggtat tatcgattct 3600

tataacgcct ccggggggttc aagtgcattg tcttgtgcca acaatgatgt ctacgcgcgc 3660
agaagagggc aatgccgcgt ttgaagttgg gcatttggca gatatacagg ggggacctgt 3720
tggctcttgc tgccttggat cttgtagaat acggctgaga tagaccataa aattgggata 3780
tccatgtctt gaatatgtat gcagggggcg tcgagagacg cgagtcctga agaacgagcg 3840
caaatagcc aatgcagcaat acaggaagaa agccagccgc atttagacgg catcagcaga 3900
gaacacccat agcccacttg gcctttttcc cattccccgg ctccattatg ttcatttcat 3960
ctgccggctt tctggtcggc aaagcttcgt attatctctg acgcattatc tcgattgcct 4020
atctttgcag agccagtga ggattctctt gactcctgac atgctaacca catatcctgg 4080
tgttgaaaca tcagaattct tcaaatagtt tgcatacggc catcagcttt taacgactct 4140
ctgtgtgaag tacctaatac tgggtctgtat tataagggtc tatccatctc actgctctgt 4200
ccaccagaca atgggcgctt ctcccatatt ctaatcgtga gttacaggcc tagagatggc 4260
ctgacgtcgt ggctagacta gatcttctgt aacatatacag cgtgctcaat aaactctttc 4320
ccgttcactc gcagtcgatg ctccgaatct gatgttgaac ttctgtgggt atctaagggtg 4380
gttattctac tatgtctctt gagtcgcggg agagatgacg actgttgagc tcagcagctc 4440
ttctaaatat aggatatggg tgggtactata cgttctttcc gacgttctag catagcagca 4500
cagacttggg ggtaaggcaa tgggttgatt ctacgtcttg ttgacgttgc tcgagcacgt 4560
accgtgctat tactcttaca tgggcgactc gctgtccttt ggtagcaatc ttcgctcttg 4620
tactagcgat agtactacgg ggggtatatg tgtcaacctg ttcttttatt cccaatctac 4680
agcatgatcc tctaattgtc tcttttagcca cccgctgaca cgctggggag tccaatcaaa 4740
gcttaggccg tctagaaacc cccaagtgtt tctccattg cttgtcaacc tggacctct 4800
cttctctcgg aacggccgc caagcgtctt gatatactct cactctcgcc tccactgcg 4860
acagtctgga atgaacaaag tctccagtag cccgcgcact ctcttcgca agctccatgg 4920
gcactaaatg accggccggc aaaacaacct cttccactgc gccagccttt acaccgccc 4980
tcccaccaa acctgttccc gtgatctcca tcttctccct ccgcgcctct ggagttgaca 5040
gttcagactt cccaccgaag atatagagaa caggcggctt gagttcgggt aaccggcgga 5100
acatcagcac cggctctggg cggtagaaaag ggtaatcttc gtcaatatcg tctgggtgca 5160
tatcttcttt tggatctcca caacgaagac cagagcgctc gtctatatac gagggacggc 5220

aataaaagaa cagctcttgt gctttggttg tegtcaacgt caccgctccc ggtccatccc 5280
gatccgttat aggatacagg agcgtaggga gctcggaag tccatactgc gtccattttt 5340
caagaactct cttatcccat gcttggtaga acggggtaga attgaatttt tgcaactgctt 5400
ccgcgcgaga ccgccagaga tcccgctctat agatggatgc ctgtggaac ttcaatccca 5460
cgtttgagcg cgttatagtc ggggtcaacta aaactaatgc gctgaatagg gacgggtgca 5520
taagcgagag gtgggctagt tgcattccgc ccatgctgtg cccaactcca acaattggct 5580
ggcggatttc gccccggaac tgggttatca tcgagaagag atcgcgcgca tggctgtgcc 5640
agtcggctag atgctagtca gtcttggtac tccttatgac tcaactgaga gaaaacaagg 5700
aggatagacg gacgatcatc ccccgagaac ccctcattca tgataccact ctgtccttgt 5760
tgcataacgt ccgcgatcca gatggatctg atgcggcgat tgtggcttcg cagtcgttcg 5820
tatatatcgt cccacagagg ctcatcacgc tcctttggga agccatttgc ttgcgccccg 5880
atcaaggatga catcaccatc ttttggtatc ggattatcaa gcggaatgta ctgctttacg 5940
gcaagtctga gctcattttc gtggcctggt ttgactgcgc ccaggcgctc tcgaatatga 6000
tgagccccga ctgtgtgctc gattactcgg aaatgcgaca tatgtttacg aattgacatt 6060
attgggcgct tgaaagctcg ggtgcgtatt ggactgccga gcatcactga tatatgaaag 6120
tatgacgggg gagagagtga ggagtgaagta ttatgtcaga tatagatcgg gctaaacccc 6180
gccccgccga aaacgccgag gctcattatt ccgtagtcag tcccgcacct gtttaattgc 6240
tttgagtaca caaccaacca ttatgccccg cgctcgtgtc attcagtggg caattaagggt 6300
atatacctaa atctctgtat actgatcttg gcgctaactg cggtagaacc tcgctgtgga 6360
acacaaccac gcgacggcat gcgaatacat tcgctctgcc gctgcacagg gcgctgagct 6420
ggcagtgtta cctgagtatg ccgtcaaccc atttccaatc tagccaaata aagaagcatg 6480
ttctaactg gaggaagata ccacctcttt ggctgggcac cagaagacc gctcttcgct 6540
acgtatgcct cccaaacatc aaagtacctg caggcttacc agtccctcgc caaagagctg 6600
aacatctcca ttgtcccggt cacattagtg gagaagcatc ctcacccgga gcaaaactcc 6660
tctgaacctg tagagggtag ggacggagat caagacgctt atgtcctcta taacacagca 6720
tacttcatct ccaacactgg cgccatcctc ggccggttcc ggaagaaaaa catctggcat 6780
cccagcggg agtatattgac ttcgtctgcg atggaacggc atgaggtctt tgatacgccg 6840

ataggggaagg ttggattgct gatttgctgg gacttggcct tccctgaggc gttccgcgaa 6900
 ctaatatctg ccggggcgga aattgtgggt gtgcccactt attgtatgac ccccttcacg 6960
 atttactcac tgtacctttt atgtacttgc atcgcttgtg acagaagaaa ctaacgagtc 7020
 ataggggggtc gctacgatgc caaccccgca gcactcaaac acaacccaaa ctcggaagcg 7080
 ctcttctctg actccgtgct tacagcgagg tgcttcgaga atacttgccg cgttatcttc 7140
 gccaatgttg ccggcggaaga acagttctct ggtatgtcgc ggggtgttct ccccgctcgtt 7200
 gggccgggtc cgaagatggg aaatgaggag ggggtgttgg ttgcagaact ggatatggac 7260
 cttgtcaaga ttgctgagga gaattatagg gtctgaatgg acttagggag ggaaggatgg 7320
 tattactctt atcggcattc gcagggtaaa ttggagggtc cgtgaggtaa gagtgggtga 7380
 ctacgggtc aattgctgat ggtataagag tattctatgg acaccgtttg gtctgaatag 7440
 cctattacta gatatatcca cctatcatgg cttgtctcgg gcatattgcc cagtcttcag 7500
 tccagcagtt tattccaagt tcgggatata gccaacctag gcaatcattc tgtcacaaag 7560
 ggcaacatac ttcaaaccag actgtaggat cgtgctgctc tgccccattg aaagcgaaac 7620
 ataacacgta ccggagccta tgccgggtctg atttctaacc tgagccagat ttcacagct 7680
 aaccaggtc caaccatata tacttacttc tacacacgcc tcaagcatta gctcttccaa 7740
 atggagcctt tgggcctcgt gtacatatac aactttaacc caaagccacg ttgcgcttgc 7800
 tcttagcctt gtgctgcaca gagagcgtgc ttttgggttc cggcttccgt cgctaaaggg 7860
 cttttttcga ctgtggcccc agctccctta agctgcttat agtgtggctt tgggtcttgg 7920
 gctcagcggg tggcatgtga aggggtcaga tggtggagtt ttttgagcat ttcagattgg 7980
 gttgccttct gtgcctttca atgatatttg ccgctgattc accagtggcg cccattctga 8040
 ttggtgcgta ccagggtttt ataggcctcc tgtntcttgg tgctgtgccc ctgggtcttt 8100
 tcttgcnag cgctcatcata aggggtgct aattcgtgag naagattctg ggcccgctct 8160
 c 8161

<210> 3595
 <211> 10727
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3595

ggttggtgctg ggctggggtt gtagtggtggg ccaatgattg acgaagcaat ggcaagatga	60
aatgataatg aggttatgaa caaggatgag gaatgactga aggatgaaat gttaaagctc	120
ttatgttttg tttataatta tacctetacc tctgcctacc ccttaggcta atgcgcctaa	180
ttgatataat attgtttact gccaggcgat tgtccctata tagactcaat gcagttgttt	240
atcttggtat cttgtatatt ggcaggatca ttcgtggagc tgctgtaagc cttttgagtc	300
ggttgaatct caggtcagct ttcagccttt agtctagttt gtctgcatta ttgcgcagcg	360
ttccctccct agtgcgatgc atcatctgct gcgggggtgtt tttggtattt attactgaat	420
atcgtcaagc tttggggggc acgcaatggc tctcccaaca cgtccactgg attcgaacgt	480
gacctggct tggctcgaac cagagaagcg agcaagaaac attgcaagtc ggagtcctag	540
aggaactgga ggactgaaat aacagttgac ctccccgagt cagaccaatc gtacagatag	600
agtcagggca cgtcaacatt tgtgctggaa gtatcttata attgggacac cgcacattcc	660
ttgccttcgc gcattgctgt attgataata ctctcaaggg acataagact gctgcaggag	720
aacggcattc taaaaagcaa ccatgtaaag caaggtctta ttcttaccga gccaaaggtct	780
gtggaaatga caccgggta gagacatacg ggtagatgac tcctaccctg agagctcgct	840
attataatta tgaacacgtt cgaccatacc aggttctctc taagcttatt ctgtaagttt	900
atccttggtt accatggagc tcaagggaag tctacaccta ctctaaccag aagcacaggc	960
cgatggacaa caacaagcaa ctcatgtata gtaaggaatc caaccctggt tcctcagact	1020
tcttcctcac gataacaacg gctgcacgcg ctgagggtgtt attgcatgcg ttgtagcgac	1080
gaataacaag ggtcagcctt tgcttaagct attgaagcgg tacatgtcga aggcttgatt	1140
caacccttac cgtcgactgg gttgcgcctt gcttgatggg tacaaccctc gaatatacgt	1200
caccgggaat gtgcagtaca agcctgacca aagatttcac cattgaaaga catcccatgt	1260
acatgagagc catatctaata ccttttagcg aggtgcggaa ggtatgtggc tgtagctccc	1320
acgaacaatc ggggcttatt aatgttcgac gccgttgagc caaaccgaat ctctagcagt	1380
gcatccgcc accaatttcg cttgtcttgt tcaagctcca agaggatata cgaccggggg	1440
tagaaaagac ggagtgggat gacggacagg gtgtgggtgg cagagagatg gagggtcgac	1500
atggaaggaa gaagcagtcg ccagacaaga aagcaccagc tactcccgtc tcagtcctgc	1560
tcaggtcaca aattgggtata gagactagac atgatttggt ctctgttccg catatgttga	1620

gatatatccc atagagcctc tgcaggaggc taggcagaat acagccggtc aagcgaagga 1680
cgtcttgata aaagtctgca aaaccaagca ctgcgcccac tcactttgat tatgacagga 1740
aagttgtcat gatgagatat ccatgaagac atacaaaatc gagcagtctc tcccacagag 1800
gggggtccagt ataaagggtt ggctttggca aaaaacaagg ttgatccgc ctcacaacag 1860
tttctggtag atattttgtt ttacgtactt ttaccattat attcagaatg catttacttc 1920
tccagagcaa agcgcgccac tgaaatgggt aaacttgagg caatgcacaa tatttccctt 1980
aatataggaa tagaagcgag ggtcattggc atgtttcgct gtagagctcc tagtcaggga 2040
cactcggaat taaggctaga caatgtctc ataacgccc atgctaaagt aagaaatcag 2100
ccggcatata attgcgcaa gggtaatgaa aggaagaact ccaagaccac acgcgggatg 2160
caacaatggc ggcgggtgga tcaagaggta ggatagtatc gaaatccgtt caatgcagtc 2220
tataactatg aaattaccga taccgaatct aaaccacagc cggccatgtc cgctctaaaa 2280
aagtgtcacc ttggtgactg aggagccgcc ggttctcgcc aatcatgcac cgagagcctg 2340
gatggtgaca acgttgcacc gatcaaggaa tgccagagcc tcgtttctgg tatgccacgc 2400
atcgttgtaa gtgcgctca aggtaagtcg tccgttcag gttcccagga aaacagccag 2460
cccagtcacc aaatgtctcc tggttacca tggattgtcc aaggtgaatg cgccatgcgt 2520
cggtgatacc gtgttgctga tgcgccccaa gtctgaaagt gatactgacg gcttgttgta 2580
aggcactggg acagacggtg ttgcattatc cgctggatag ggaggtgtga tcattgccc 2640
gtgcgagggc accatttgaa tacgctgctt gtctgtgca ttttgcaggt caaagcgacg 2700
gacggcgcta gcaattctca tgtactcttg tcgtctcggt atgctgtggt cgaaaagctg 2760
ttcaggtgcg ccgatggaag cagctgggac agtcaaatca actgccaggc actcgccgga 2820
tacagaatgg taaacggagg ctgcgtgagc aggcgtgttg tacgggtctt tgcactgtgg 2880
ccgttcatca agaaggctgt aattgacata ccgcaccgtc cgcgcccggtg attgtcgttt 2940
ctggaggtcc cgaaggacga tgccgatggc agtgtgatac gcatgcgtca aagtcaagcc 3000
cagggatctg catgctttga gtaaagcatg cgttgactct gtggacagtg tgatagccac 3060
tcgttggtgt ttccctggtc tagtcgcgta ctttcgatgt ggaaaaccgg caatctcgac 3120
atcccttttc agggcgccat tccaagcgac tgcctcgta agccgggcct cctgttgttt 3180
gctgagcgtc ggcgaaatgt ccgcagcgac acgcaacggc ggactcaacc gtgtccactc 3240

attatcaaag tttggaacgg tgtaatcatc gccttcatga agggccttggg ccgcatgggc 3300
 gaagagagta tttaggagca ttaaagtccc gaccccgtcg acaatatcgt gacgacagcg 3360
 aagcaccacg tctgcgggtca tcacaccct atgccggcca ggacgcttta tcaggaacag 3420
 agtcggaagt actggaaccg gaggggtccga gttgcaccac tgcaagccgg acgacttagt 3480
 acggataacg cgaaacgtct cctgcagcca catattttgt acctccgggc tcgagatcgc 3540
 ctcatagact tttctgcaact tctgctgctg ctgctgtac tcaacacgag atgcgatcgt 3600
 cgggtttctca taccgcaacc gcagccaggc cttccgcaga gcattttcca ccgcgatatc 3660
 agtcgcctgt accgagaagg atatgtatcc cgttatcgca aagcagcaac ggccacaccc 3720
 ttcgtaggtc ttcgcgagcg aggtgtagaa ctgctcgact tcatcgatat cacgctccca 3780
 tcgagctggg ctgacctcg tccaagcata gtcgccagtt ggagtgtcaa gcgaacccat 3840
 gatgcctcga tcgcgcgact ggtgccaaac aagctgaaaa cgctcggga tggaggggag 3900
 atataggcat ggcaatgtct cggtagcaag tcagtcgacg ttctgcaagg gaggatcagc 3960
 cggccactgt cccgatcaaa ggggtgaagat agacgacgga ttgccagaa cgggcgaggc 4020
 actcgccccg tcgtccgtat cgaatgcgga tcgccgtcat ctgagtttga cacgaccgat 4080
 tcccgaccag tttcaggtta acatcatctt atcagccata atggcgattt ctatcgccca 4140
 tggccagaac tggggctggc gtgattgttt gttcggttca acttcgggtg tgagttcaag 4200
 ttcgggagtc agtcagatcg gttccgggag agcgttgggt tggtttgggt ttattattta 4260
 acgtcactcg gcggatcacg gggcccacgt gatctgcggc ctcccagggg gcactctggac 4320
 gtgctgtcta aacagaactc cctaaaacta gctagatata ggtttgaagc agcaactatg 4380
 gacaatatat gttggaaatg agcgggaaga gcatccggcg ctacctggc ctggtcttcg 4440
 agggcagatg cccgttttga ctacctatag attgggggga ggggccgtac cttttatcca 4500
 ggtagatgtg tggactgtcg cactatcaag cgctccggcg ggcccagttc gggcatatat 4560
 ccttgaagaa ggatgattct tgtatgatgc ggctgaattc ttcagccccg gcagctgtac 4620
 ttaagagcca gtctattatt tttgacgggc tgtcccttat atatctctat ctatctttcc 4680
 agcactttct ggtgtatggg cagaagaaga agtacactgg ggtcttggtc ctaccacaag 4740
 agcagctctc caggtagtct gagtggttga agcgtgggtg gtatgccata aagtctccgt 4800
 ggcctgtacg gggggcgacg agtcggccaa gtaccaacg gggaagcttg tgctcgcggg 4860

tgcggtcttc	ctttgtatgg	ggtctgatat	ccagggtctt	gtaggcttgt	ggtgccttac	4920
tagtatatgc	tgtatatgtc	tctgtacgaa	gccactgttt	tgtctcccgt	tgtaggatatg	4980
caggggatgg	ggggatgtta	gggctgtata	tagaggaccc	aagctttgca	agcttgtctg	5040
ccagcttggt	cccagcaatc	ccagaatagc	ctgggatcca	gcggacttaa	aggggcttcc	5100
gtggcctggt	taggattgag	ggagcttcca	accactgggt	agcaagctgg	ccaaaggact	5160
ctgacagtct	gtgcctatgt	ggagtgggccc	tatagcttgc	tagcaggag	gctgctgcta	5220
ggttgtctag	gaggataact	agctgtgtag	agtaacccat	acatggttat	cccagggtctg	5280
cgcgtaggcc	ttctacagca	cccatgattt	ccgcatacata	gacctctgtc	ctggggccccg	5340
cggggccatg	tcccttggtt	accaggatag	ggccaaagta	gactgcatag	ccaaatcctg	5400
ccccttgccc	agttcacaa	ctgtctaagt	atactgatat	ctataatagg	gcagggtctat	5460
agtctttggt	atctgttggg	agcatgcata	atagaggag	aggcagctct	attatagtgt	5520
gctctggcag	ggggctaagg	aggagctgta	ggatcctttt	aagcctgggt	ttaggcctgc	5580
ccacagtagt	ctctgcggct	atctgggcaa	ttaggtattt	agtatcaagg	ctcatgtatc	5640
tcactactgc	cctctggagg	atgctgttga	gtagagcttc	tgggtctggt	aggtctgctt	5700
tgcgggagaag	tgctgcagta	ggggtagtct	tgtaggctgg	gataatagcc	agggtctgctg	5760
tgcagaagag	agaaagcagg	aagttaacta	cccctttttg	tcttttgctt	gtatagaaga	5820
cttctgcact	gtacagagct	gttaggagaa	tatactgtat	aactgctgcc	tgcatggagg	5880
ccactaggca	gctgtgctag	gtattgctaa	gtctcttttag	gtgctgggca	agttatttcc	5940
cgcggctgaa	gaccaaatta	atataggctt	taaaaataag	ctttgtatcc	agaagaactc	6000
ctaaccaaca	tatatatagg	gatagtgtaa	tctcccccta	taccaggtag	agtaactata	6060
gggagatgct	gctgctgctt	tctagagaag	tattatatct	ctgttttctc	tattaagaaa	6120
gggaggcctg	tctctgtccc	tagggcagta	atttgcttat	aggcccctac	cagttattat	6180
aagctctctt	ccagggtatt	cccagttaat	aatatgccta	tatcatctgc	atagcagaag	6240
gagccttcta	aggtagagac	tattcttgct	gcataatagca	ggaagagtat	tagggatagg	6300
ggggattcct	aggggagtcc	tcctttaatt	agtactgtgg	cagtgccttc	tttaataataa	6360
acagatacaa	agcagccagt	aagccagtcc	ttaaataagct	agagtaagcc	tttatactat	6420
ccttgcaggc	ataagtaaga	aaggagctgt	tggtatatta	cagcatcaaa	tacccttttt	6480

atatctagta	ggagtagtaa	agcatctttt	ccctgttgga	aggcctctc	taccctgtaa	6540
acaagaacct	ggaccaggtt	aatagcagag	tgtcccggca	gggccctgaa	gtagcagggg	6600
gctagtatat	ctgcctgaat	tactcttaca	gctatctgct	gtgctaggag	gtgctctagg	6660
cctttacct	gggtagagag	gaggctaatt	agctgccagg	cattgagttg	ggtatagtcc	6720
ctctccctg	gttttggtaa	tattattatc	tttgctgact	tcaggctcag	tagaaagcag	6780
ccttcctcta	tatacctgta	gtatagttgt	atgattatat	ctcctaggac	aggccagagc	6840
tccctctaag	cagtgggtgg	aagcctgtcc	tcccagggg	cagagggggg	tagggcatag	6900
agggcagcct	agtagtgctc	ttttgttggc	aggtgcaggg	ggcccagggg	cttattaggg	6960
ggccctctt	ctatctgatt	tggaagcagg	gcccccttct	ctaggaggtg	actgagaaag	7020
gtgtttgctt	tgccctgtgg	gatagtaacc	tgagcccctt	atatatttag	gggaggggca	7080
gcaagctggt	ctggatgttt	aatctactta	gcaagtttga	atatactctg	aggtgctgtg	7140
gcttgttcaa	tctgctgctt	ctagtattca	gcctttgcct	gtataatggc	cttcagagc	7200
tgtttatagt	cagggttttg	ttgctatctt	gtttagtgtg	gtatgcctgt	tagttctgga	7260
gtctactata	gagtcctggg	gagtctgcaa	gtattatata	ttaatatata	ttgtattaca	7320
agttaggata	tctagaccag	ttgctcagct	agtaggttaa	ttagtagggg	taggtcaggg	7380
aggcttgcca	gtactctggc	tttttcctag	ttggtagagc	caagcttgta	tataggcagg	7440
ggctcttcct	gttccagtat	tattctaatt	attgcatagt	tacttggagt	cttcagatgg	7500
tcttctacta	gggcccttag	tagtaggtta	gagaagacaa	ggcttagggg	gtttggtcta	7560
cagggtgggg	tgccctggctc	aaggcgaagt	tccagcttat	gggcatcaag	ccagtccaat	7620
agtcctgttg	taccaggtgt	gacagcataa	gactcagtat	ctggctgcca	gaataggtgc	7680
cgggtattaa	agtctcctgc	taggataata	ttctctggca	gagtatatcc	taggagtata	7740
gaaagtatag	agggtgttga	gccagcacca	gcaggggcaa	ctaggttatt	aggaggctga	7800
tagatattaa	taatagtaag	gcctgctgtg	tagattgtgg	tgatgtctgg	agagataggt	7860
tctaggaggg	aataggctgg	gagatccctt	tatatatata	ttagagttct	gggcctagca	7920
gtccatcagg	tcgggggact	aaacagctga	tattataggt	aggtcttggt	taggtatttt	7980
gctgtatttg	tccaaggttc	ttggacaagg	ataatatctg	cttcaaagga	gagtagcagg	8040
ttgtatacag	tgccccccct	tcctatatta	gcttatagta	ttttcatagt	tcaggggagg	8100

gcagggtttg gtttaagagc tcctgggtaa gctgtcttat aggctggctt gtaatttagg 8160
tactgtttat ttgttgttta gaactttcag ctttgttctg ctctgttgg aaggcaagct 8220
ggccagcctt gtagatagca gctagagcat cctttgagag gcgggtaata atattcttct 8280
ggatataggg tctggctggg cattttggga agtctgctgc atgtgggctg cagtagttga 8340
tacactgtac acagcagtta tgatcctggt ttgaggatct gcaggaaatg tatcagtcac 8400
tagagcagca ggcccttgta tcatggaagc agtagcatca cgtgcattgc aaaggccttt 8460
gcttggggca ggtaggcctt gataggccgg acaagccaaa gagttgcagg gggatttgta 8520
gcttttttgg aaaggctatg actgctgtaa tagagtcctt ctctactagg tattttgaga 8580
gcttggcat gagtggtta atactagtaa tgcactctgc ttctatgcta atatctgtaa 8640
ttattatata tatccatcta tccagggacc agagttgttt tgggatccag gagataataa 8700
cctgatagta ctctgttaga atttcaaagt acccatcccc agctaggctt gctgccttct 8760
ctgacagtag gaaagccttt ccctgttctg ttgtagtgat tacataacca gttgatgtta 8820
cttgcacctg tgtgatcacg tccggaacct tcccagcaag ggtgaccgg atgccatgtg 8880
gtccgatagc ccggaggctg gaggaggccg ggaggcggag gaagatgtgg tggtcagtct 8940
tgtttaactg cttcagcttt tgttgtgtgg tttgtttage ttgcatatgc tgtttagggg 9000
taatagtttg ccagttcccc tggccagctc ttggagctgt tagggatgcc caggttgtat 9060
gctgcgaggt tcgcctacce gggggctcct tggatgcttc aggagtggga ggttgatttg 9120
gctgttccat ctgcctaggt ggttgtgggg gtgcaaccgc aggcattctga ggaatccgct 9180
gcggggagtc ttgctttgag agggtgacaa atctggctgc aagtcctgt gccaggctct 9240
ttggacagcc ttgtagagag gagacggtta ggtctagagc tttagccaga gaggtcattg 9300
ctagtttcca gtcattgagg aggattagct ggtcatctgc taccatgctg acctgatcac 9360
agattaatag ggcttgccgc atatgaggta taggggcagg agctgcattg ggagtcttct 9420
gcggtgagaa taaggccctt ctcttcaggg agttccgggg taggggagtc ggggtggtag 9480
gtcctgaggg ggggtcagag ttttcacca gccgcggagt cggcgggcgg gctccgcctt 9540
ggggggagat atccacctcc atggggaggg ggggatgagc actgagccaa gtgtgagaga 9600
tcagttatta gagcagtagg ggtgctgttt tcccctcgtc gtgagtgtca ccccttaagt 9660
aagctgctag tgcttcagat tattcaccat cgtcatcacg tgcaccgcgc cactctgcag 9720

cgactttaat tgagcttgga cataaagaca gactgtccag acctcagcca ttatacattg 9780
ggatacagtc tcgacatggc agatacagca cctcaagtct ctttcaagaa gcgttcggtc 9840
aagaagacca atttccgcaa gaagccagaa tcgccgcgcg ctgatgcgga ctctgactcc 9900
agtttcacct cctccgatga cgaagaaggc cataggatca agagacggcg caagaatgca 9960
gcagtgtctg cgtcttcaac atcaaatacg cgacgcacaa caacctccga tgaaccagct 10020
acggctggcg ctgccgttcc tttaacggcc tccaatgacg ccaccaaaca ttctaactgg 10080
tacgatgacg agttgaacga gaagaacctc ttaggtacca cacgagctcg gccagcggct 10140
acaggggcag atgcgcccga cggtagatac aagggcgcgg cgaactacca atcgtttatt 10200
cagaaaaatc ccaacgctcc tgctaagacg ttcggtccga ttaaagcgcc caccaatgtg 10260
cgaacagtaa cattcatgga ttatgcgccc gatgtttgca aggactataa actcaccgga 10320
tactgcggtt ttggagattc ttgcaagttc agtcatatgc gtgaagatta caaacaaggc 10380
tgaggagtgg atcgggactg ggaagtcagc acaaagggca agaactctggg cggtaaagtg 10440
gtatcccaga gaggggggtca agctggcgag gatgaagacg atgaagagga acaactcgag 10500
aacattcctt ttgcctgcat catctgcaag aaaccgtacc agaatcccat tgtcaccaaa 10560
tgcggaact atttctgca gtctgtgtct ctgcagcggg atcgcaagaa cccgtcgtgt 10620
gccgcctgcg gagccgggac cgggtggagtt ttcaacgttg cgaagaagct taacggcctt 10680
cttgagaaga aaaggagcg tgcacgacaa cgccgggagc aggccat 10727

<210> 3596
<211> 9616
<212> DNA
<213> Aspergillus nidulans

<400> 3596

atcaattttc aagggtcaa aacaacattt acctcgtccc agactatcgg aatcgtatcc 60
tggtcttcgc acctgtgcaa gacacaatag ctctccggca gaaaggccct acgctcctag 120
gggtcctctg gatggaagtg ttcttgtttc tggtctttct cagcgcgcgt tactatacca 180
gggctttcaa gctccggaac atgggggtggg atgacctctt gctcgctata atatgggtga 240
gtctgcagtc tgctgagac attcacttgt gtttgtgaac acaccggctc actgtttgtc 300
tggcccaaaa ttctgatggc cgcgtttgcc gggctttgca ctgcgtccgc gacgtacggc 360

atgggagtg c acgcggcgga tctcaccttc caccagagca ccaatgggtat gctgcttctt 420
ctggccggcc agagtgtcat agagattgcg atgggagtc gcaagccctc tctaccgctc 480
cctccgcgcc caggcttcct cgaaagacgc acccaactac gatagccttg gcggatcctc 540
ctacagaaag gctacaggga atcggacaaa gaaagttatg gaatggatac gctagccacc 600
tccgttgtgc cgaaaagcca tgcgcggcat gatagcggaa gtcattgggtt gaaaggggat 660
gaggaagacg ttgacacgag acgaagccta ccagggtgtt cgcctaagtc taccgaaggt 720
agtgggtatg gtcataatac caatgtctat caaacgagag aggtcatcgt ggagtgtgag 780
gatagaaggc ctgacgaggg gcacggggag ggaggatcta tcggctcact tgggaatgag 840
gaactggcga gtcccagtat gcccgcgttag ggccaggcaa catatctgag tccgagtcgt 900
ctgttatcac gcaccgtatg gctgcttgtg gtaatcttac tggtttgtat taaaagcgtt 960
tagccttttg ctaaacctgt attacttcta tatgtggata ctcttattat atacagcact 1020
ttcatatctc atcgccacca atcgtttctt acagggtgaa tcctttgatg cctcactgaa 1080
gcctctatag agcaagaaat gcagaatggg gtagcaggta actatgcctt gagcacggtc 1140
agagtgatta aaggatataa gtagtaatag taggcgtgaa taggtatgca tacgatgcac 1200
gagaaatgcc gtactaactg ggacaacatt tcacccctc catgtcatgg cgcttttgtt 1260
gcagagcccc ggttgggtatg tacaaccgga gggtagcggt atgtcgatat acatctcacc 1320
agcggtttta cgatgacctc gagtacgaat gcatttttat cagagggcaa tcccatcaga 1380
cgagcgcggtt ttatcacgat cggttgttat cctcatcctt tctaaatcag aggaacatct 1440
tccgctgcat tggctcagag accatctaca cagcaaact taaccggact cttcccaaaa 1500
atctctgct tttgatcaaa gaccaggga aacgaaagg gaacatacca tatgataatc 1560
cagatgactt ataccctcta tgtaatccac actatgattg accggaaagc caccaggcag 1620
acctccaac atcttcatga aattttgccc acgctccaaa tgaaaagctc cttgcatctg 1680
cgctcgcag tgggtatcgc cttcccatg atcatcaagt ccgaagccat aaaagacatt 1740
ccgagaggtg taccgcccct cgacgaaagt gcggttgttg atgacctcat ctcgaaacata 1800
ctttgggatc cgcttggggt taccggggcc gataccaaag taccaggcgt cgtagaccga 1860
ggggtcggcg caggttatat ctgtgggaaa tacggggcgg tcgctcacga gccaggcgaa 1920
ggagccggga ttcacgacgc cgtaagttat ctggctgtct tcgggctgcg agggacggag 1980

cattgcatct tgattaggct gttagttttg cttcgtggga acagtgagga tcgggggtggt 2040
ctaacagcgt tggacagttt gagcgccaag tgctggtacg aggatcagtt tgcggtgtcc 2100
agtgggaagt gtggccgagt gagcatacaa tgactcgca aaacaatcgt ctccagtgcc 2160
gggtagacat ctttattcca gaagatcgct ataaatttat ccagactggg gatttgtgta 2220
atgagcatgg tacttccgct attgtggtca cgttgaagga ggacaagata ctcacgcttc 2280
gaaagacgat attttcacct gaccaggacc gacagctggt ccccgcgct ggtaggtatt 2340
cttgtgatag tatatatcgt tcggctccgc tgcgccagca gcaacatcct cttgtttcag 2400
ccactggggg caagcgacga ggatcttgct catgtccgcg ttgacgcttt cccggccagc 2460
ggcgagatg agggagtttc gtatgtctat actaggtcag tattgtctgc aagccagcca 2520
aagcttttag caacaagtca ttactattgg catatttcca tccgctaagt gtatcattag 2580
ccggaatata aaataaacta agtaggggag aggacatact tctccatat cccagccgtg 2640
gtaatgaaa cgcgcgtaat ctgtataagg tctttggtgt tttcaatgta gtagggcttc 2700
agccaaacat cagtccaggt tgcagtttca ggggatgaat gttcctcacg taccaacgta 2760
gcattcatat cctcatcaac gacaagcctc ttttaagtcaa agcccgctac taccggactg 2820
gactttacta ttaatgacga cttcgccgag tgagaaagag tctcggtcga agacatacat 2880
ttccttccat ccattgatat ggtcaccccc aggcgtggca gtgctgatca ttatcgtagg 2940
gcagtcggcc ggttgcgctc cgccgactgc gtcaggttgc ccactcagge gtattgtctg 3000
tacatcatcg acagcgccga atgggggtgg atccccgttc ttgtgggtcg cctgcaggta 3060
ttccggcgga actgatgctc tagacatggc ggctgtagaa agggctagga cgagatatac 3120
aagacgcatt cttcagtatc aaatcagggtg tgtgatgatg acagagaaaa agaaaaagtc 3180
gttgatgcgg tgagtgaaga gcaaggttgg ccaaataaag taacgccgtt agctgctagg 3240
agtacaaata gcaatgcagg ggcccgctg tgtgaggctg aggttacggt ttcttcagtg 3300
aggccagcac ggactcagcc tctcaatgag agaccctact gtcaaagaaa gagaggtcgt 3360
taaggacttc tgtcagatth tcagctgtcg gtgcggtttt catcgggcgt caatctttcc 3420
taatgcgata aggcaaatgg gtctggaact tgtagtaat aatggctgtg catattgtgt 3480
gggtctctcc caaatgagca ccaataattc atgtataata aacgtactac tggcttagac 3540
cgggctaata cgtcgtatc cacaatataga agggacgcta agagtgggaa gagccgagtt 3600

atccatccct atttataccc cccacggatc atccaaggcc aatgctactc tatatagacc 3660
gggtcatcta ttgaagctca atatatggca ggctttactc cgggcgtcaa gaaactgata 3720
gataatttat gtctcgcttg tccggttcat atttgtggac attttcgaaa agctccttgc 3780
gaccgcgcgg tccaacaaag cggagtaggg agtcgaggac cttgcgtttc cagttaattt 3840
tgaccttcag gtcttgtgcg aatatattgc accggattag cgtaagccag cagaagggtta 3900
ggatatttctt gagctcctcc cgattgtctg gatgaaacgg atcgtgggca acgggtagtc 3960
ggcgctgtgt atggtcatac cgggccattc ccagaatcga cagcactagc tctgggagta 4020
ggcccttgct gcgcagaatg ttgaatgccc atggtatata cgctgccgga ggatgatgtg 4080
gtatagtctt agcgcagtta aggaagacct cgaatggcaa ttgtccgtaa gggaactcag 4140
gctcgtccaa agaccagtta tccttgcata acttgagttg gtcgaggaaa tctcttaatac 4200
caggccagtc gtgcgcatac gcattgtcaa tggagtattc atcgtgggtac tcgagatgtc 4260
cgttagggat cccaaaaaac tcttgatata tatattgtga tcgggtgatgg gtctgcgtat 4320
gtgcatcttc tgtccatttt ctggtacaaa attgtgttct tatgatcatt ttctgttggc 4380
gacgcagggc tatgggtctg atttcgtctt cgaatttcag catctcatga ttcgggcaag 4440
cagtagatga cattaagggc caggtaggca tccaacgtgt gctggtacaa tactttctag 4500
ccgagctgga tagaaacgtc ggagcactct gtcacgtca tccattgtac atagtcgacc 4560
tctggatgag agcaggcgcg caagataggg tccatctctt catacggaaag gagcggtttg 4620
acaagctcca agtgcaaaaa ggcgccccgg tttgcgcggt agaaattgta gcagttgtta 4680
aacacacatt ggcgcagaaa tgccgatgct ttctcctct tccatgacac ggggcaagaa 4740
cagccgactg tgaacccgcc atcctcctct ttctgccgta tcggatcgtc ttccttgccg 4800
gcttcactga cgtcggatct atgcgcgat agtgcttttc taccagtcta gcgcacgtca 4860
agccacggta tgaatccgct gttgagcttt gtgcgccatc tgtacacaac gcggttgagt 4920
cgctgagccg tggcgctgct tataagaatg tcgtcaggcc gaggcggctc gtacttggcg 4980
ggatattttg cccgctcagc tactgtatgt tcattcaggt tgtcagcaga ggactcggcg 5040
aaaatagtca atataccttcg cctgtattga ctcgaggcca agcacgatat ccgaccgggt 5100
ttctctgaga ggatcgccgg actgatatat cagatttcag actagggagc cccagtgtat 5160
cccataagct tgatgtgcca tattcaattt caaagcgaag tgctctgact gattggaaga 5220

aaaggaagat gtggccaaaa ggccagatgg ccagatgctt atagtgccta tactctagat 5280
tctgtctttg cgctaggctg aatcaggcac gtggcgatc ctcagtgtcc ttggtagagt 5340
cattcctgcc tgtgactcgc tcttcttcat cgatgcagct gtttatatcg atctaactcat 5400
catgggaagg atgactttac tgaggtagtt cttttgtcat gctgaaccac taagtctgca 5460
taagtttgca acaataacctg tttgtttcta tctcacgta taaacatata atgtgaacct 5520
tcactggata tcaagctcca caatccagcc agtcatttga tgatgttaac gagggatgaa 5580
gtggcttggg taactactat gtaatcatca ggaagagggg tctaagatga ctggatcacg 5640
gacatcccaa ttattatgcg agaatagtag ttatctatct ttttgcctac attttgtcat 5700
aaaaattaag gaatataaat taagaataaa taaacatttt cttttcgaaa taaaggaaca 5760
ggaaaaagaa agaaaaaag gactagcact atcgttacac ccataggaga tgtctacatc 5820
taaaacacac attacacgtt acacattact ccatctattc ccttcgcaac caaccacca 5880
agctcatcta ttttccaacc ttctcaagat cccattcgg ccttggggtt ttctccttcc 5940
tgagtccctg cgtcgtttcc aacgcacggg tcaaatcata actctgcgtc aacacactaa 6000
cggccagcgc aatcccacaa atgccacaac aaaccgcata cacaatcctt agagagtctg 6060
tgtacgctgt ccggagacct aatttctccg tcccgccgg catgcgcttg atgacttcca 6120
ccagtccagc ggcatcttgc gactactccg aggccatgga cgcaagggct ggaatcccag 6180
actcaacaag gttagagtac atttggttct ggaagaccac atcccaatgg cgacaccgac 6240
ggcttggccc attgcgcgga agaagctgaa catgccgact gcgatggcga gcgtgtcatt 6300
cgtggcggag gcttggattg cgaaaccgat ggaggggaag agaaggccca gaccgatgcc 6360
ggggacgata ttgatgaaga tgaaagctgg gatggaagtg tcaacatcca tatagcaaag 6420
gagaccgagg ccgaatgttg acagaacca gccaaagccag actgcccagc ggtagtgacc 6480
gtatttcgtt actaggaccc cgaccaggcc cgcgctgggc gcaacgggtga acgtcgccgg 6540
gaacagagcg acaccgcca tgatggggga gtacccttc actgcctcgt aatagagcgg 6600
ctggtaatag agcagacacc agagaacgag accttgagg aacgagccgg caaatgagac 6660
tgctgctgtg cggttttgga agatcttagg tggaatgatc gggtcctttg cgaagcggta 6720
ttcatagaaa ctgaatacca gcaaaccaac gacgccgatg attagtggca ccaaggtgcg 6780
ccaagagtcc cagtcgtaaa ggattccacc ccaggacagc gggatgagga aggacgacat 6840

gctgccgacg aagattatcg ttccgacata gtcgatctgc cggagttttt cagcgagaga 6900
ggtggggata atgttgagct ttaaaaagag gataatcgcc accagaccga caccgatgaa 6960
aggggaagtta atgtagaaga tccagcgctg gtaatattag ctaccttctc tctttcccaa 7020
atatcagttg ccgctagaag agcttaccga agtgacatcc tgactgaacc cgccgcccag 7080
tatcgggcca gtcaccgagc ccacactcca catggctgac aagataccaa agtactggcc 7140
tcgtagcctg agaggaacaa gatcagtcac gatgacctcg ctcagggcaa tcaagccacc 7200
accgccaaca ccctgaatag atcgcccgac aagcatatga gtaaaattat tggcaacaga 7260
acacacgacc gttcccacaa agaagagcgt taacgccaca aggacaagag ggcgcccggc 7320
gaaaatgctg gagagagagg caaagttcgg ttgaaagact gtggaagcga gcaggaatga 7380
cgtcccactc cagaaagctt ctattgccgt ccctttcaaa tcctgcgtaa tgatctagaa 7440
aatatcagca tcatttcgga ggttaaagga agttcgagct cacaggtaac gcgactgaga 7500
tactcgtccc atcgagggca accatgagcg ttaacacaga cagcgtgaag aacgccatga 7560
taccctgctg accaagcaca aactcatcca tctcctgtcc cgtctcggtg ccctcagagt 7620
cagacttga aggccgagat tggggcgtag cggggctggc gacttcaggg tcgggaggag 7680
taagagtgtt ctcgctcttt tgattggcca tggtagctgt gagaaataag cttttttggc 7740
ggtactaaaa agaagcaagt tgtagtagtc tttgatgagt ttcacatgct ctagtagaga 7800
tgcaagcaac tcatatatat aggcattgac ggatcatgaa gatttcatgg cataggagtc 7860
aaaatccttg acggatagat tccctccgcg gctgaaccta gcattgtggc tgtagatct 7920
tactggact atgactgaac gatcatgttg ccagttggg gctgaagggg catcgtgac 7980
atcgaattga tccacggccg aatggccggg acaacatcag accgtatcgg gtttcccgcc 8040
ggatggttta ttacaccgaa gagacaaggt tattcgtttt ggcttagcgc atgccctttt 8100
gagaatcgct ttagccagat ccggttagac tagcgagtcg gcccgatttt ggccagggtt 8160
catggcagag attgactgcc taaactgcct caagggttag gcaacaaggt ttcacatgca 8220
gcaaccatca agcggattaa gtaacattag ttattagtgg taatctaate tctacaggta 8280
tggtatcatt atattagata aaatgtctc acgcttcac aaccagagcc caaagtttca 8340
agccactaat cctgtggcat atacaactga tctaactcat gcattccgta cgctggtgga 8400
cactcgtcgc ttgggttcag tgtttctggg agcggtatcg tctcaccaca aaacgaatct 8460

tcccatcacgc gatagtagcg ggataggtat attagaaccg gaatggccag acggagctag 8520
 aactattagc agaggacatt ccttgggatg ggggtgtacac acttcgcttt catgaccgtc 8580
 tggattatgc atccgaacat ggatcttcaa cttgtgactg actctgacgc ccatatcctc 8640
 cgtatcttgt acgcaatgtc caagagcctg tggaagtga agtggtcgag agaactggta 8700
 cgattccaat gctttgctgg aatactcttc gccaaagtga taccgatcgc tgcagacgat 8760
 agtctcagtg cggggcggcg gagcagatcc tccgtcgttc ggttccacgc taagggtcgcg 8820
 gacctccaga agctgtgact cgatgaatgc aatcttcatg tccctcaaga gaggggcaaa 8880
 gacatagtct acatctatgc ggggtgcctaa tgcgacagtc cggttctgga tgccaatacg 8940
 atatgcgatc ttgttcgccc atacttcac caaagcctgc atacatgta gacgcgaaaag 9000
 cgtagcagcc aaggcgtact cacaaagtcg tgggagcacg gctccaggtc agggaccctg 9060
 atcacacgta gtggcttgct gaatgtgata tcgcggccgt gtcgtcgcgc aatctcgaca 9120
 gtgaacaagt acgagatcga cgcttccttc atgccttcta ccgatgccgg caacgaccct 9180
 tccataacca cgtcgaacgg atacttgtac tccccggccg gcaccgtcat tgggtgcttct 9240
 cggtatccgt caaaaaaatt ccacgttcgg ctgtagaact cgttctcgct gcagaatctt 9300
 ttccgtccgg tgcgtgctgg gagactgctt tgagtgtcag atctgaagat gtcggtttgt 9360
 ttgcgtgaa ctacagatac ccgtcgcaca ccacggagat gtaatcgaat gtacttgata 9420
 gttgtgttt ctttcaatcg gagagagagg atcccgtga ggtataccgc cagcgcctct 9480
 tgttcagacc cctggaagag gacgaagtct ttgtcgagtc tgtcgcaaga gcgtattagc 9540
 cgggtaatat tctcttgaag tgaattatat aactcactga ataccaacac gatttccaac 9600
 attcgcacca tgctct 9616

<210> 3597
 <211> 1831
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3597

atgggtatgt ttgcattgcc cctattcgta atgaaagaaa tacgtcagtg aadgatgcgt 60
 agagttccac tctttcacct ccgtccctca aaatcccctc ccctgccatt cactctacat 120
 tgcttagcca atctattgcc tttatgacag tctgttgtcc ctgttggcac caatacaaaa 180

acctcagcca gagccccgaa cgcgaggcgc caacatagaa cgcgcctgcc gggccctcct 240
 atttcaaaca gtcaagctga atctgagcta gacacagaca taggcgctga aaatatatac 300
 acattttcac tgacagcact atctctctac ctacgccatc aacaccacag ccaagactcc 360
 acctgccaat gcatcaacgc agccatagtc gaggcgatg ccgtcgtcca aggcgggtag 420
 agttcaccga gagaaggtga gtataccttt cattcttcga acggcctacc tccctatccg 480
 caaacctcaa aggctaacct aacctattca acatgtctag atgggtcaagc aatgaatgca 540
 gacccccgta tccgcatctt caggctcatt cccactccca gaggcaaact cactctcaca 600
 gtcaacacca aaaacagtcc catatcactc ctacgcgtg cccacgcct tactcccacg 660
 attgctatac ctgcttcaag tcttcaacac gcgactgcga ctgcgaagat tacgagctcg 720
 accgatgcgg ggatggatgc caactccagt ctcgatgcc gttacaggat aatgtccata 780
 cacattgcat gtctgggtgca gcaaacgtga aattgacagc caccgcagct gcgatggctg 840
 gccctggggg cggggcgatg gcgcatgctg cggcgcatgg ggatcgtgtt acgcatgggc 900
 atgggcatgg acaagcgcaa gagagccagg accggaggta tgaacgtcaa gatcatgtgc 960
 gggtagaagg gtgtggaggg agatgtattc agattcatga tagttgtgat cgtgggtggg 1020
 aatgcggggg tcattgtgga catggacata ggcaggagca ggagatccac tgttgtgttt 1080
 ctgttgggtcc ggctgggatg cgtcataatg ggcgggtttg tgcatacagat tgtgaaggag 1140
 aaatgggcga aagttggcat cgggatgaat atgcgtatgg gcctccgttg ccgcctagtc 1200
 ttctgaatgt tagacgggga ggccgatgtt ttagatagcg agaataattgt tctggacggg 1260
 agacgcttgt catcgggaaa aaaacaaagt tctctatgat cgatttaagt cttttattca 1320
 taacttaata cagggcagcc aacataggaa aatatgatga ggtcaatgct acacggatat 1380
 tgctagcatg gctagactag aggttacaag attgtcggta tatgatgggg ggaaactgtt 1440
 tagaagtgga tggccttgga gtaggtggcc atggcagcct ccttgaaggc ttcggcgagg 1500
 gtaggggtggg cgtggcatgt cggggcgata tcttcgcagg aagcgccgta ctcaacggcg 1560
 aggggtggcct cagcaatcat ctacccggcg ttggggccaa tgatgtgcac accgaggatg 1620
 cggtcagtct cggcatcggc gatgaatttg acctgacct cagtctcgag gttggtctta 1680
 gcgcgggggag ttggcgctga agggtaaggt gccgacacgg tacttgatgc cggcagcctt 1740
 gacctcctgc tcgttctggc cccccaggc gacttcaggg tgggtgtaca tgaaactggg 1800

gatggcgccg tagttgacgt gaccaactcc c

1831

<210> 3598

<211> 1702

<212> DNA

<213> Aspergillus nidulans

<400> 3598

caacccatag ttccgccaac gacatcgccc tcgcctacat cacaagttcc tccaactcct 60
ccgaacccgt catctctacc tectcgggca ccgcccacat tcgccccga gccaccaccg 120
ccggttccaa tctccgaaag cgacaacccc gatgcaattg ccctgcgctc agcgatctcc 180
attctgcagc ttcaaaagca acagagtcta cgggatattc agacgttgga gaggatgaaa 240
gaagcggcgg ccaaggatcc ggagagattt gcccgatgaac ttattgatgg gaaactggcg 300
aggaaagagc aggggtggatt tatcgatttc aaccatgaag aagaggatcg tgatggagat 360
acggagaccg cggaaggtgg atcccgaata tcttcagagc tgggaacact gcctgcagct 420
cagaatatcg tccgcatgcc ggcaatcaac tgggcgaagt accaggtagt tggggagagc 480
cttgataaga tgcattgagga acagcttcgc cgtccttctc ttggtgagcc gagacgggat 540
gaagcgcggg tgccggcatc ggcaacgcca gcgccagcgc cgttgcatctt gctggcgctc 600
ccgtatcaac cgctggtaga taaactagag aattcgacga aagcgaaagg gagcaacaag 660
ggcaagaagt catgagactg ttattggttt ctgatagtaa tatatgatac ctaacagtcc 720
tgctgaaaaa cataatcata acgccattat gaggggtttg ccaagcccag aacagacacc 780
aaggtgaaag caaccgtcac cactggtccg agatactgaa atacttctga aactcttgca 840
tggtgcgtga aggaacgatg gacgcctctt catagcacac agctacctga agtctcccag 900
tcgatctaaa gaccttcac cactgtttat ccttctcgtc gagaatatag gggcgcccac 960
gatagctgaa tccgatcagg ttgttatact gcccatatga ggacgcctca ctcggaacg 1020
atatctcagg acttgctaca gaattcgctc caaagaaacc aaaccaacc ccgttctcaa 1080
tgccatcatc atgaagctta aacacagggg cttaacagc tctgttcata gtccactcgc 1140
tctttggccg cagctgtaac acctgccttc gaaggtcatc ccgctgcttg aaaagcgctt 1200
tcttctctc cttatcaact tcattcgccc tgtgtgttct tatccacgtc tgcgtggacg 1260
ccgaagacgg cgcacattgc agcaagatgt tattaatagc ctcgtttgag agaggagcgt 1320

agcgctctgt ttcgtgttcc ggtatgaact gcggttgccg ttccggctgt ggctctgaat 1380
 gctgctgcgg gtgtacgcta tcgcctctca ctatagcagt ctattcaacc attgttagta 1440
 cctgtcacgt cgtgagaatt acagcacttt gaagcaccac cttcaaaaac tgataagaca 1500
 attggagaac ccacataatg gccgtgctcg ctgtcacaga gacaatcacc ctcatctagc 1560
 aacacagact cctgtacgag aatctcacca ttatcattat cgtcatagtt ggcatcatcg 1620
 taacactcgt cgtcataatc ctcttcacac actgtccggt cagggctggg actgaggccg 1680
 cagttgcagc tagaaattct at 1702

<210> 3599
 <211> 1593
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3599

tcaaacatga gaattcgccg ccgcataata cgactcacta tagggatcac ctcgggcgca 60
 ccacttgggc tcgaaaagta tactgagaag agttgacaga agagttgttg cacggcgcggt 120
 gattggtgcc ctccaggcgc caactcaccg cttttccag aattgggtgc gacgatctgc 180
 attgctatcg gacagacaaa agaaaaaaga caaaagacaa ctgagactcc gactaaaaga 240
 tttctttgac ccattgtctg gtttgagata agaccagtgt gggctgcagt caacgggtcc 300
 tgcagtatcc ccatcagetc ttttgaacca gccgctgccg gctgtaagct ggcggttaagc 360
 tggctgtaag ctgcaagcac ctttcgagtc gataccgggc cgatgggcga ctgcgattgt 420
 ttagagctgc ccaatgcaag caaaccataa tagagatcac tgtggtgata agtgcctgcag 480
 ccccgcccg taacggcctg ctccactagc agggagctag tcaactgccta aagagggttg 540
 ccctcggtgt ctgagcgact ctgcctctg tctgaggtgg agacctgggc agttcgactt 600
 tttttttcct ccccgggctc tctgaggttt cccatagagc atacccccct cctctgattc 660
 cagatagcac tctcatcat tttcgaaggc ttcccatctc atcgtcctcc atcacctcgt 720
 ctcccgacct tacctcttta atcctctatc gatagtgcc aagcgagctt gggacgttga 780
 ctcgactaca ccccgcccg tggaggtgga ccgggacatg atggctacca tctctcctaa 840
 gagaccccag tgtggacctg ttattgctga gatgactaaa ccttgaccca agaattgccg 900
 ctgcgcgaa tgtactcttt gtctgatttt tagcgaatct cagcaccgtt acgataataa 960

tggcctctca agttggtgaa accgtcgccg tccccattgc ggatgagcag ttgaaggacg 1020
 gtaagtgaac caatgcgatt cgggatcttt aggggtcatt gctaataaga gttgggaacc 1080
 agggaccaca agcagcgta ctcccgccac ttctgcggac gaagccgttg agcaggtggc 1140
 tgaaaaggcg aaggagctgg ccaaagacat tggggccgtc cccgccgagg ataagaatga 1200
 cgctcctgtg cagaatggca cacataccga cgaggacaag gaacgtggtg ctgagcagaa 1260
 tcccggtgtc gacgagaagc ccgagccagc attggagctg ctgtccaggc eggatggccc 1320
 ggaagccgag ccggtgtcg ctgtctccga gaagcccga tcgaacggcg tcacaccga 1380
 gcaggctccg gtcgtgaac cgacatcgac ccaggtaag tctgacacac ccgctgtcga 1440
 ggaaaagtcg aagcctgtcc cggaaccgtt ggatcgacca gatgtcgcg ctgacgagaa 1500
 atcatccgtg gccgagccgg cgacaactga agtcgcgct caagcacgg ttgtagatgc 1560
 tccgactgtt gagggatcaa ctaaagccga agc 1593

<210> 3600
 <211> 4364
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3600

ctaacgcgtc tggccgcgaa tcatcgaact tgtacgcgga gatataacac aaggcaggag 60
 agatcgagaa aaatctgggg ggtcagggtgt tatacactcc tgaggctgtc gtcattgtt 120
 ttgcctcatc ctcatatga tgcttttctt aataactaca tgttttcggg acctcgcatc 180
 aatgtcctct cactctcacc tatgagtggg acaattagct gctttgggta ggtatggagg 240
 atttcagatt ctcatctaca acccgaagct ggaaaaatat gcttggcttt gattataaga 300
 aaggaaataa tgacctccaa ccggccgggtc ctcatatgac tgctgtagaa gttccgggtc 360
 tctctaattt acgcgagtat gaatggcttc ccggtcattc caccgttcgg tacatcatcc 420
 acgagggtgt gtcggaggat agctacgagc ctctgtatct tgtcaagcta gaaagtcatg 480
 agttggaagt tgtacgaagc caacccccctc aactaaagat gctttgactc acagctcctt 540
 tctactcaga tatcttctc gcgtctgcaa aagcttgaaa atggccgcga ggcacttgaa 600
 actttccaga actcggtgt tcgttatcgc gaaccttct gtgagtccga gtcgaatatc 660
 gataaggagg aagatgaagg acaagagacg acgtgcagcc ccccggggtc tgaattggat 720

gacagcaggc cgctcgcccg agcaaagaag accaagttca cggaattctt tggtagcggtt 780
agcagcgacg atgacggaaa attgacaaag tccgattcaa gcgatgaaga tgttggttga 840
cccaggtcga ggcaaagtgt gctgaggaag cgtccaaact atcacagcac cttgaataat 900
ggctttggtg ccaatgcgca ctcaagaacc agggcttcaa ctaggtcccg taaacctttg 960
cggtacaatc tccatgagat gtacgaggac gatatttccg aatatgaagc cgtgctgtca 1020
aatcatcgaa aatacgtggg cactaaggag aagttcgata agatcccatc gagtgatcta 1080
ttccgaggcc gtcaccgaga agtctgcgaa gtctgctcga ttgaaggcga tcttcctgac 1140
aaagggcctc ttgttttttg tcaaggctgt actgatgcct accaccaggc ttgcctaggc 1200
ccacgaaccg cgcgagagca tcttgtcacc aaagtagcaa gcgataaatt cattctccag 1260
tgccgcccgt gtttaggttc ctctcacgcc aaggattcaa gattccccca tcaaggaata 1320
tgcactgggt gcaataaacc gggaaagatg tcaaatccat taaggagcg actaacatcc 1380
aaacaagaac agcaacaacg gcaggagaac ggaggtgaag atcctattac agcggttagc 1440
tcatacctca tcaacaatcc agataatcta ctcttcggtt gcaaggcttg ccataggtct 1500
tttcaattcg atcacctccg ggctggacgc atatccaact ggcaatgcca tgattgcaac 1560
tcgctgcccg gggaggtcaa cgcaatggtc gcctggcgac cattgagtac cgctcgaag 1620
aaatctccta agatctcgga actggacaaa gagtacctca taaaatggaa agagaagtcc 1680
tacgctcatt gtacttggat gcccggaagt tgggtttggg gttatatcaa cccggtaatg 1740
cgctcgcgct ttttgagatc agacaaaagc catctaccac ggatgaccac agatgaggcc 1800
atacccaatg attacttgcg gttcgatata atttttgatg tcaagttcgc tgataatgat 1860
ctccatatgt acggtgagga ttacgacgag gatcttgagc gcattgataa tgtttccaaa 1920
gcctatgtaa agttcaaagg attaccctac gaggatgcgg tatgggaagt acctccagac 1980
cgtagcaata ctgaagcttg gaatgatttc aaagctgcgt atgcagactg ggccaagaaa 2040
ccattcatca gcacacccaaa tcaaatatca ctacagaaac acctggctaa tgtgaggaaa 2100
caaaagttca agtcgagaga agctcagccc aggattatga cgggcgggga gatcatggat 2160
taccagcgag atggcttgaa ctggctatac ttcaaaggt tcaagcagca gaacgccatt 2220
cttgctgacg agatgggtct tgggaagact attcaagtga taggtttact ggcaactctg 2280
gtccaagatc ataagtgctg gccatttctc attgttgtgc caaactcaac atgtccgaat 2340

tggagaaaag aattaaaaac atgggtccct tccctccgtg cagtcaccta ctatggctct 2400
 tctctggcgc gaaaatggc gcaagaacac gaaatgttca ttaggggtga cctgacctc 2460
 agatgccatg ttgtcataac ttcatatgag acaatgggtg atgattcttg tcgaaagggt 2520
 ttgtcaagaa taccttgggc cgggcttatt gtcgacgaag ggcagcggct aaagtctgac 2580
 aagagccaaa tctatgaggg actatctaag atgaaatttc cttcaagggt actgatgact 2640
 gggactccgt tgcagaataa caccaaggaa cttttcaacc ttctgcaatt ctgtgatcag 2700
 tccaagaacg cagaagaact ggaggagaaa tatggcacc tatccaagga gaatatcccg 2760
 gaactgcacg agttaatcag gccgttcttc ctccggcgca cgaaggccca ggtccttact 2820
 ttccttcac ctgttgttca gatcattggt cctgtcacga tgtctgttct tcagaagaag 2880
 ctttacaagt ctatccttgc aaagaatact cagctcatca aagctatctt ccagagaaat 2940
 gaggaggacc agccactaaa acaaacagag cgtcataatt tgaacaatat cttgatgcag 3000
 ctgcggaagt gcttgtgtca tccctttatc ttcagcaagg ccattgaaga gcgaacggac 3060
 gaccagaag tagccaccg caatcttggt gatgctgcag ggaagcttca gttattagag 3120
 ctaatgttac caaaactcca agctcgcggt catcgagttc tagtattcag tcaattcctt 3180
 gagaacttgg atgtcatgga ggactttctc gatgggttag gtcttccca ccgacgcctc 3240
 gacggaagga tgacttcact tgaaaaacaa agaatgattg acgattacaa cgccgagaac 3300
 tctccatact tcgctttcct tctctctact agatctggcg gcgtcggtat aaatcttgcc 3360
 actgcagata ctgtcattat catggacct gatttcaacc ctcaccaaga catgcaagca 3420
 ttgtctcgtg cccatcgat tgggcagaag aataaagtcc ttgtctttca gtcctgatt 3480
 cgaggagcg ccgaggaaaa gattatgcag attggcagaa aaaagatggt actcgatcac 3540
 gttctcattg accgtatggc cgcggaagat gatgatggcg aagacttaga atccattctt 3600
 cgtcacggag ccaaagcatt atttgatgac gacaactctg gcgacataat ctacacttcc 3660
 gaatctgttg ataggctgct tgaccgcagc caggcggagc aggcacgaa tccagacag 3720
 aatgtctctg cttctgagtt tagctttgct caagtatggg ccgccgatag ccaaggcctg 3780
 gaagaccaac ttaatgttgc agaagaagat ccaaccataa gcaaccaaac gtgggagaaa 3840
 atactacaag agcgtgaacg ggctgcggt gaggaagcac gaaagaaagc agaaatcctt 3900
 ggccgcgga agcggaagcg ggcgactgtt gactactcag ctgttgatgc cgatccggcc 3960

cctgccagag cgcttgcgag tcgcgagact gagagtgacg cggaattccg tgaggatgaa 4020
gccggagtag cctctgatta cagcatggaa gacgatatta gtgtttacga aggggcgacc 4080
ataaaaccta aaggtaattg gcctatcgca attgctttgt tcaaaccccc agaaagctaa 4140
ttccatctgc agttcatgca tttcagcggg tcatactcct tccacaagtt gcccaaactc 4200
ctcagtcagt ccaagcacca acgccgaacg gtgtagggat gaatggccat gtggaccgca 4260
atggggatgc ttgttttgtc tgccggccgag ttccccaatg ggatcttgcc cactcaagct 4320
ggctggagtt gaacattgcg gtctctgtgg actcgctcat tatg 4364

<210> 3601
<211> 6324
<212> DNA
<213> Aspergillus nidulans

<400> 3601

tatcagctac cttgttgatga cctggagtac atcttaagct ggatccctta ccgttgacga 60
ccttgtagac ctctggacgg cttgcttttt ctccacacc actggcgtgg ctttgagata 120
ctccgcagag gcttgaagct gaacaaaaga agcaaacgga ccaggaacaa gcaaataata 180
tataaagtat cgagccagta tcaagatcaa gacctagcac ggtccagatc ttccaagacc 240
aacatgaaat ggccgtgata aacaagaaga aattagggac tccacttgat ggacgtctag 300
tctggtatat aaaatctcaa gagtcaggac tggacgaaca gtacggagta tctcaaagtc 360
ttaacaggca gtgacaacga ggaatgatct gaagacgatc ctgacaatgg ggatcactag 420
taataagcaa atacgatccg ccgggtttta tctcttttca agaaaaccga atgagataat 480
tagaaaaata aaatagaaaa taaaataagg aggaataaaa taaaataatt attttctttt 540
tcgttggttc ctgcacctg atatgacgct acgatctaga acgatatata ctcttttttt 600
ttttgcttat ccgcctcttc cttccggtgt ccagagcag tggaagcagc gggggtgcta 660
atcaacaggg atcttgctg ttcacggtgt agctctgtct gttatactcc gtacagcgcc 720
tcctttcgca gaatggacat tagcgaggcg acaatctggc gaataatgat atgtaaattc 780
cgtactccgt acttgtaac ttcaagttaa ccctatcaag caaaaagtgg tatttatatt 840
tctaataatca tactaaaaa gaaggaggga cagcttaaat acagtaatta cgactcgtct 900
tttactctg gtttcttcta atagccccc ccaggcatct ccaggcatcc tgcctaagcc 960

tacgtcctcc ggggctggct cctgccctag gaacgatccc tgctagctac ctaacacccg 1020
 catgatctat gtggattggc agaggcaaga cgtgcttcca aacctagtat agcgggggagc 1080
 agctaagata tagtccggag acgctagtag tagtttggtt ttcctagcgc cttaacgaga 1140
 ttctgagtaa ggaattttgt taccaccgcg ctcaaaacca acactttggg gcagagaatc 1200
 gtcaattggt atgacatatt gcatctagtc actcgtgagg cagtcggaag aaggacggac 1260
 cactcgtttc aagtccgac gtgtcccgat cgctatcccc atcaggttgg cattcacgcg 1320
 caccgcatcc atggaagata ccacggtaga acgtacctt gctgtacctc gatgcggtat 1380
 gtatatattg attttggtac atcgctgac ataaacgagg cttgtttgcc tcgagttcga 1440
 ggagttccca aactcgtcgg tcggcttggc tgacacagaa gagaggcgac cactgagcat 1500
 ccaccgttta tgacattaat cacaagaatt ataactatcg tcacgattcc cgcttcgcta 1560
 gttcgtatag ctggatggag gtcattctgac ccgaatgggt ggtggaaagt gggccagtct 1620
 ccagagcatg gacccgacaa tccaaccaga agaacgtgca cggtgccgag cagtttggtc 1680
 ctgactgaca gggatgatgat cgctattgtt ggacagagct cggtcgctgt tcagaggacc 1740
 gatcaaataa ttgaatcttc aagccagcag ctgagtagag gttgtcgctt gactgcttgc 1800
 aaacaatccg gcgacaaagt tcaggggaga caccagatga gccacaataa acaggactgt 1860
 gggcatgatt cccgttcaact gggataccct cgtctccac gcaggcacct gaactcctat 1920
 atgggggtcg gtttcataaa aagccactct gcctagcgga tcggcagtca tcatcacctg 1980
 gactcttctg gggggtgcga ggctgtcgac tgtggatcgt gctctttgga cttttgggga 2040
 cttagcccaa caaatgcgt gcaccaacat acgtacatcc gtacggggtc tactattttc 2100
 gatccgaaaa atggaacaaa agatatgaga tccgagcaaa aaaaaaaaaa aaagatcttg 2160
 gtccgtgaat tggacgtcag ggctatagca ttgcacctt gcagctcttg gtctccattg 2220
 tcactcttaa taatgcaacc ccggagctga cgggattgtt gagactggct gcatctgctg 2280
 caggatgccc gaaaccgctc gaagtcgaag cctgctgctg gctgagtcgc tggaatgaca 2340
 tagctttgac atccatggag agacgtgtca atcgagcgac aggcgatcag aaactgctga 2400
 gtatcggcgt acttctttct ggcgtcggat tggagtcgag taaatcgatg gagggttcgg 2460
 caaggctaca ggacggaccg tcggcgggag atccaatagt gccgtagttc gctgcacgct 2520
 cattcgatct gctcgcccc acgtccttt tcttttggat cgcagcagcc gcgactggcg 2580

ctgaattcgg cccagttcct gtcagaaatt aatgcgaaaa acaaataatt tctgcaaggg 2640
 tttctttgtc tttgttgaca gccgccaagg gatgatatga cgaactatct gcactcacct 2700
 ggcagttcct gccaaggact cgtttcgcaa cccacgaaga ggcagaagtc tgtttgacat 2760
 tccgactgcg gacgacgtac agtatagtca cctgtactcc atagtcaccc tttgtctcag 2820
 tagcgtcacg tcactttctcc ccaaaaccga tttctgagca gtctccgacg cattttgcta 2880
 gggatcagga tgaattgatg tgtgcatgct gatgcagatg gctggaccac tagaatgcct 2940
 cccacaaaat cccagcgtcc gatcactcgt cgattttcat cgttcattgg ataagcgtgt 3000
 agtggatccc tgagattggc agcgcgtgta ccggtgtgca ctgtgcccgc tgcctagttg 3060
 gaagcctgga agtctcgacc agcttccgac catgggggat agcaccacta gtccccctag 3120
 tgccaacaat agccctgatt ggcaaattat tctgacgggtg agatccaagt ctcaacctct 3180
 tgggagtctt gagaggcttc agaatccatg aggacttcag ctctgggggtg aggctgggca 3240
 catcagcttc tactccccca gcgcagcatg tactgaacac gatgggtccg aagtgggac 3300
 ttcgtttctca gtcctcgat tcaaacattc cagtagtgtg cggccgggac cgggaccaca 3360
 aacagacagt tatgctcacg tagcacagct cgtggctgag tcgggattgg ggcctagtca 3420
 tgcccattgt cagcgcgatt actccgacca gactccagat gccagatgcc tcgtttatgt 3480
 tttcttttgg tcgccgccga ggagcgggac gaccctttct cagtaataat gcctgcgcgg 3540
 ctggaatcgt ggttcgcac cgtgcccgatg gcattaggtc cgggggtttgt tgctaaacta 3600
 ttgatataca ctactatgt cgacaataga tttcaactcc tgaccggcgg tctccgactt 3660
 acatataaga cccgatagga gttcaatacc gtatatgtac tgcggaccgt gcgcattcat 3720
 ctttgcgcaa actccggcca aagctggact acggactgtc ttccagctaa cctgccaaat 3780
 ct cattatcc tacggtacct gatcgacaag atcacagtta agggggaagc gaaccgtcaa 3840
 gtccgagcgc aacaccggga attctgagac atcacaatgc agttttccaa gtacataggt 3900
 agcgtgttta cttacgcagg cgtcaggtac ggactccttc ctgcaggtga catgaactgc 3960
 gcgaaaaggt ggcagcgagg ctccctataa ttccgtctc caacacacga acgccaatc 4020
 aatgctcttt ggaataagat cccaggatga tagagcgccg agactgagca ttgagagaga 4080
 ttgtggctgc actgacgcat gcaaccagcc ataacggaga atcagggtccg tctttgcgag 4140
 tccgcttgcg tacatacgag cctacgcca ttgcagccct taccctcgt tccaaggacc 4200

gtgctgaaca gctttcatag ttcgtctact gtatgatcaa gatccgggac aatgcagccg 4260
 ccccaaatac ttacacaaaa taaccgcgtt ctgcccgcaa aggatcttcg cccgcaagtc 4320
 attctggctt acagacaatc accttgatc attggcgcca ggcttcacga gaatttgatt 4380
 caccatgact gcgttaaccc tgcaagtgcg cgcggaaga atgtatgtac gtgggtgtcca 4440
 aatctcacta cccgctcctg ctggagaaat cgaagagacc gcttgactat tgaggctgtg 4500
 tgtgcagcgg ccaccttgcc cggcaatctg acccaaccgg tacgaattct cgcgggcacg 4560
 ggaaactgaa cctgttaacc cgcaggaaaag gatcacattg gccaatgaca acaccacat 4620
 aatcttacct ggtgagtgcg cttgcgccga agcgttggat catgacgccg ttcgtattgg 4680
 gcaagctttg gccgaacgct tgcaagtgtt atgggctttc taagagttca tattcatcat 4740
 catagaataa tctttcggtc catgatatga tgtaaacagg ataagataga ctgaaatctt 4800
 ctatcctgtc tcttgataat ctacagccgt catcctaacc atttgctaca aagtacgatg 4860
 atacaccagg atttccgagt tctagccgcc tgactagaag cgctgcagac taacgctggg 4920
 ctctgcagtc tttctaagtt gactactata taacgggtggg gaatcatcaa tcttcctatt 4980
 acgcgctaca aagaatgcac aacagctaaa gaacgccag tccaaatccc aacattcata 5040
 ggggctgtgg tctgattcct atccagattt tccaccatat agcgaagtct gggatgtcat 5100
 tctatcgtg gcccgaaggc agcgatgcac catgaaaaaa tgggtgaatg gtagatgagc 5160
 ctagacgcgt taccggagac attttgaacc catttcgtac atgtccagca cagcggtcgt 5220
 aagcgtcagc tactacaaac tttctgtcga gtccttttct gcgggcaccg gaatctggct 5280
 aacttacgaa gcacaaagta gcaaagcgtg atacaaagac aggcgtttgg tatcacatag 5340
 atatgtatgt atcagcacct tcaatgcctc tcgccaactc ccttgatagc acctcgtagg 5400
 ctcgagttac gaattatcgc caagcgagaa ggaaacactg aatttcatgc ctgatcatgg 5460
 aggaagaatg ccagacggtg tcgtgtgctc agctgatttt gcaggacctg tgcaatatga 5520
 gctgcgctgc tcttgccaa gtcacgtgta acttccttta atccgtcctc tctttgtact 5580
 tgatctcaac ctgatataata atgtacttct ctgtgcttca taacaattgc attcatcttt 5640
 cagtatacct aaattcacca aagatacaag ggcctaact caagggaacc aacagaaaag 5700
 tacctcatca tacacaaccc ctttttgtgg ctctctttgt tgccttagtt tgtcgggtgtt 5760
 gcgtcagaga cgaccatac gaataattga gctataaaaag aaaaggggga aagaacaaaa 5820

caatacaaga ccataagcca ttctgcgcaa attccactgg ccggtattgg ttgaggatgt 5880
gagaggaacg caaaaaggag aatgcagtag atcgagaatc gcgttgacgc cgaagctttc 5940
ccaaattcaa tgattaccgt ccagtgtacg cggagtatct gcagcacgtt atggtcagcc 6000
taacatccaa atcttaggca gtgagatagg gttagggaaa gaagcgtacc tccagattct 6060
tgacgcatg tcaccactgc cagtggcaaa caggttgcca gtgggactgg gtgcaactga 6120
gataactaat tgcccaagtt agatatatat ttgatgaaat aaatgttctt gcgaacaagc 6180
ataccagagt tcttgtgccc ctgtagcatc atctgagcat ttccagtgat gggatcccag 6240
aattgaacac ccctatcttt tgaaccactc atgaccaggt gaccatcagg agtcaaacag 6300
acactaagca caaagtcttg atat 6324

<210> 3602
<211> 2692
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 3602

atcagcataa aaaacacgag cagagagcca aggaaatagt tcataccaat aatccgtgag 60
cgatgtatcg taccacgagt ctctcttacc gttaacgca tcgtacagat ctctgtagta 120
gcccgcggtg tcaagaatct gaataccgcc cttgtcaggg ccttcgagga tggaattctg 180
gaattgccac acatcatcgt tcgactgcag cgacgaaatg gtggtgaaat tattgatata 240
gatggagcca acaagccagc caccgccgt aaggccagac aagtacgtcg cggattgcag 300
caagccaccg agttgacctt cgctggttga gttgtccgtc cggctatcga acgccttaag 360
ggctccagca ccgttcatca aagcacgcca tctccgcca gagactgcga ttccaatgtt 420
gggcagattc gaggagtgc taccgatccg atcaaggtaa ccgaccgcgt caaaatttcc 480
aacgctgaca tgaccaaaaga agtcactcag agccgaccgc gtgacattgc ggcgccgctc 540
gagccatgaa gtctcgttcg gcgaaagtcc cgtcgcaagc cggatttctg gacggttga 600
cgggcaactc acgttcgcag ggggtgtagc gtcaggggca ttgggaaatg accgctgcac 660
cggggacact tcggacgatg cggcacctgc agggttcaga ttgaattaga caataacgcg 720
cacgggacaa aaattgtaac gtaccgcaca gcaatccggc caaagcaagc accgtagttg 780
aagtcctcat cttattaacc ctgaagtgt tctcacacta atcgtggcag cgcaagggtg 840

acgttaacta gtgacctata caaggggctt ctgccgcggt gccaggacgg cggttaatat 900
 atatagatgt gagacgoacg ggcccatgca gtcateccca atttaatgtg ccacattgat 960
 ctcactcaag agcgccatgt tagcaactgg ngcccatag ccaagagtgc cggagatcag 1020
 agctgggtgg gccaatccct tgaactacgg ctgcgtattg gcgtcgattc aggagaccat 1080
 gatatcacag ggcaggggga tccggcagtt ccgctgggct tagaagctag aggccgaact 1140
 ttgcaacaag aagttcgtta gtgctgatgc tctgtcctgg tttgttgtgg ctgggtgctgg 1200
 acgcctgagc agtgttgtta agcagaacag ccacgctaga gtctttatcc ttaaccgcca 1260
 cgaattagcc aggatctgaa cgtcgatccg tgataccgat agtctgtagc tcagtgtcga 1320
 ccgtcatgct aagttcgtgg ctttcagcct tcgactcgtc gagctgtccg aagaacagcg 1380
 gcccaaggaa cacagtctca tgatgcatgc gctagcgggtg acccaagaag acagatttgc 1440
 aggctgcaag attattctcg cggatcgagg cagtgatttg cgggacgggtg tgggtcaacc 1500
 attaaaggag aatggaaaaa cgagggataa caactccgga gtatgcagcg tgatggagag 1560
 acaaagtcag aagtcggaaa cgagtacgaa ctgccacaat ggagtcagag cccggcggag 1620
 agctcggaac ttgggcgggtc ccatagatac tgcagaataa tatgaatggg cacaggtgaa 1680
 aaatacatat ttttaagagag caggcgtttg catctcaact gattcgattt cggtttcatc 1740
 cgagctctag acaaacaagt gcaagctacc tcatttttca cactcgctgc agagtgcgc 1800
 tgacgcccag attccaggcc gtcactgtac tgacagcgcc tctcactcag tacgactctg 1860
 actcgacaag ctcatatc acatccatcc tcaaggtgaa cttgggtcccg cgaaacaccg 1920
 gatccccact atgaagcaat tcgctctgct ggaaaacaag agccgaccct gtcctcggga 1980
 agatcctcac atgcctctcc ttctcctcat atcgcggcag aaaagatgtc gcaccgtcca 2040
 gtaaacgccc ttccacatct agattcatgc atcccccttc cgacccttat ggccccctctg 2100
 catcgatcgc acactttaat tcttgagggt cctgctctcc atctccattc agatacagtt 2160
 ggatcgtgaa atacgatcta tcgcgccggt caggcgtgggt atagcgtgcy tcccagtggt 2220
 ggcggaaata ctgcgcccc aagtactcct tgtcgtcagt aacagggcgt ctaccaagta 2280
 aggaccgaga cttatacgggt actgacctta ggacccttaa cgttcgttta tcgcggaacc 2340
 tgatgtccaa ttttccccaa gcctggaaga gcgttggttt cagcgacaac tcatttttta 2400
 gaaagaaagt tctgcagtt taggattaag tgcaaatac catgcgtgcc aaagggattt 2460

ttgggggcct cctatatagc ctccttcctg gcgtttaatt agaaatcttt ttttgtgggt 2520
gtacccacaa atttatcctt atagtgttta cgctgctaac taaacatgcc tttaaacatc 2580
ataaaccata atccttcacc tttaatccta ttctgtcttt cttttttatt tcgttgttct 2640
tggggccaac ataacataaa aaaacataca ctaatataaa ttatctactt tt 2692

<210> 3603
<211> 1339
<212> DNA
<213> *Aspergillus nidulans*
<400> 3603

ccactgaatc caggtcctcc gtacccgccg tcaccagggc cgctcgtctg ccccttatag 60
gccagggacc taaagtctcg aaggacagc gatctccaaa ccgtggagtc tcagatacaa 120
agcctgaagg cctcgttgta ttgattcaat tcctgagcat ttgcctcaaa cgactgaaac 180
acggtacatc aaccgggatt gactacggga acttgactga tagctgtgct accacgccga 240
agccgtcagt agtcgttacc ggccatctat tcttggcaga tacgcgccgg cttgttgctt 300
gattttttctc tagcagtttc aactgaggct gccgaacacc cttccgacgc aggactcgaa 360
gcgatagctc aagggccgaa tctggactca gtacagtcgc gtatatcggg ctcttctgcc 420
gctgcgtcga aggcgatttt gcaagtggct ccggtgtcag atgcacactt caatctagca 480
tccgatcgag accaatatga aaaggccaga tccagccggc cagcgccgtg tcagtcaata 540
agagtttttc acgtgaccgc cgtttcggac cctgaccgct aagtatctac atcgtagaag 600
gcttcttgcc agttgcaacg gggatatact gaacaaccgg gacgccctta cagtcgcaag 660
tctgatggcc acccaactac actgaataag gccgtcgtaa taatcttgaa taagctcact 720
ctgatcaccg gccaccgtcc cgaccaatcg accacaggta ctgcgtatgc gtatctgctt 780
cgtatcaaca gtcaacgcac tgctggtaca tcctcttccg cattcgtcga aggatcagcg 840
tcagctcagc tcgcaggatc tcacaagcca caaacgtgcc ctcaacgagt tagcgccttg 900
caactcccta tcaccgggga ggtcgcccgt cgatttccgt tgataagcaa aagcttcaca 960
catcgactat cggcgggtcag cgttcaatgt gtccatcacc cactgaaaca agttactgtt 1020
tagtcaagta catagtccac tgcggagtac ttcattttca tattcccatc ttttagcgac 1080
ggagcgtgtg ggccggcggg tatatccgcc gactctcaga gagtgctgag tgctgacaag 1140

tgcaagacag gttgaagttt gcttggttcag gaataaagga tgcacatctgaa cagtttagcct 1200
 cggcgataag acgggctaact cggattcctg gtctgataga tcatggagag ccgccatagt 1260
 ctacgaaact accacgcgat aagaacgac ctccttagcc acgcgttcga ccgatcatca 1320
 tctcctcgat ctgatttgt 1339

<210> 3604
 <211> 9239
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3604

ttggcgctcct gttcgaatgg cattccctct gtctatacgg atgaatgtgg agagaggcga 60
 tgggtggggca tcgctgaatt tggtagcatt ctcaacgcag gttcgtaggc gtcggagctg 120
 aaccgcactc tctgctggag actcgaagaa ggactcgctt gcggtttcgg cagttgctcc 180
 atcatggctc gactaatcct tgccccctac tctttctctc tggctctctt ccgaaatacc 240
 ctctctctcc tgctgaccag cacattcact tggtagtcg tcgctgcacc tcgcagtcag 300
 tcaaagcaat ctctgacagg atcattgtat cacagaactt caccatgtct ctccaccgct 360
 gccctccttt ccgcgtcgag caccttggtt cctcctgcg tactaaggag cttcttgacg 420
 tcaagaccgc ctacgagaac ggtaaagcca ccaaggaaca actcgaagct gtcgagaaga 480
 aggatatcaa ggatgttgct gagctccaga agaagttgcg gtactctgcg ctctctgacg 540
 gagagtactg ccgacatagt aagttgaggg ggaaaaccaa cgaagtttgc tttttccgtt 600
 ttataagtgc cgtggctaata gggaaccttg tggactacag tgttctgggg ctctttcttc 660
 cccggccttg agggcttcga cgaagtctcc gacccagcc ccgaggtctt ccgcccctac 720
 gccccgcagc tcgctgcttt ccttgaggca ggtcacaagc ccggtgagag cgttttctgt 780
 accggcaaga tcaagcacgt tggcagcaca tacgtcgacc agttcaagtt tctcgctcg 840
 ctggttgccc ccgaggaggt caagaacctg aagctcacc tcgccgcccc caactggtac 900
 cacctccgct accgtgaagg ttacgcctac cccaaggaag tctacgcaa tgctgacgag 960
 tactttgccg atatcgccaa ggcgtaccag gatgagctga agatcctcta cgatgctggt 1020
 tgccgcaacg tgcagtttga cgacccaac ctcgtttgta cgtctcttgc cagtaaaacc 1080
 ccctacagat gctaacaaac attagatttc tgctccgaaa agatgctcca gggctggaag 1140

gaagatcccc tgaacacccct cagcgccgac gagacttttg agaagtacat caagctctac 1200
 aacgactgtc tcgccacccg ccccaaggat ttccacgttg gtgtccacct ctgccgcggc 1260
 aacttcgtcg gctcgcgcca cttctccgag ggcggctaag accgcatcgc gaccaagctc 1320
 ttcaaggaac tcaacgtcga cacctactac cttgagtacg acaccccccg cgccggtggg 1380
 ttcgagcccc tcaaggaggt tccccgccac aagtccgtca tctttggtgt tgtcacctcc 1440
 aagttcccc agctcgagga caaggaagag atgaagaagc gcgtctacga cgctgccaaag 1500
 ttcatcgccg agggtaatgg catcactctc gagcaggcgc ttgatcaggt tgggtgtcagt 1560
 cctcagtgtg gtttcgcctc tcaccgcgag ggtaacgcc a ttgatcgca gggcatgatc 1620
 aagaagctag agcttggtccg ggctattgcc gacgacatct ggcccggcca gctgtaattt 1680
 tctttatttc ctctgttttc atcatgacta catcttacgg gagcatttaa catggcatgg 1740
 ttatgggtat atgaacgaat tagctgtata tagtctagtt acggggcctt gcgagttcaa 1800
 ccaagcgggg atcatgaatt ataaaaaatg acgaatattt atcgagtcct cagtgaactt 1860
 tcaaaccagg ggtagcagtt cacgtggtaa gtatagggtc gagaaatgga gattggcttg 1920
 gcgttattag ggcgggttgc ttgagtatag gggagctagc atatatgctc ccggtcacct 1980
 caggaattgt agcatattgg cagtagcgaa tatttcattt gaatgcatga tttcgacaaa 2040
 accaatgatt catcgagggc ataccggagg ggctcaaacg tcttacacgt gcggcgcttc 2100
 tatgtgactc ccggctacgt ctattattaa tgacttcagt cttcatcaac aagtggatct 2160
 ttatgggggc ctgccctggc tgtgcagttg gtgtagggac atctgctagg gagaggacgg 2220
 atgggtctcc gaatcgcgcg acgaggattg ctttcatgtt aggcctttac tctctgctta 2280
 tcctctaacc aagaaaacca gagagccaga gaattctgat ggtctcgtag gaaagtgagt 2340
 cattatcctc agggagcagt gcagtcctgc ttattggaat ggtgggttga gcttgggtgc 2400
 catgctgact gacggcgacg ttgtggtggc tccttttgga ctagttactt ggatggcctg 2460
 gttaacatgc atgataacct aatcttttgt actccatttt tgcttagtgc tagggttgac 2520
 ctatcagaaa acctccccta tcgtctgaca ggcacgcggc caggttcgca cagaaccctg 2580
 ggtatggaaa gccaaactgga ggtaagttta gatgagtgcg cttgaccgca gatttctaga 2640
 aacaacaaag cgttcatcaa ttaatatgtc gcaatattca cggcgatgcc ctggtttggt 2700
 gaccattatg ctgtttcttc ggtcttatag aagcaatata cgagacttcg cattcatcaa 2760

gcagccctag atacaagtct ggatccatgg ttcgctcttg acaaccact gtgtcccgtg 2820
cccatctctt agctatctat ataaattccc aacaatgtat attcgatccc catgtaatag 2880
ccgagatgac atccagagca cacttccctt gccaatctga cttcctggac gagacttgac 2940
gctagagtct tattgctagg ccgcgggcat ggatgtagac accataccag ttgcattact 3000
gcgcgctgta accggctact gcattatctg ccggacagtc ctctctagag gtctacgtag 3060
actcgtcagc tctgctctcg ctgcgtatcg ctaacgcac cccaagcctt cagcactcct 3120
ttgggtccgta acgactttta accaaccgtc tcaactcctc cccttccttc tcttctctc 3180
agttccgtaa ctataccgag gtctactctt gaactacata cttttcagct gcaaacacat 3240
ttgttccagc agagctgact tctactcctg gcgacataac atgattttcg catgtgctcc 3300
agccaaggcc gcggagagat attatgtctt gtggtacggc gttagtcttg acttactggg 3360
gtacctaggt caaatccatg cttggctgtg cttctgggta gagttttttt atagaagttt 3420
catcagtga cttacgtcgg tggggtagag gtcaagagtt gctggctgcc agtgaaaaag 3480
aacataatcc gtggcacgag taggtattta ggctagcctc ttattcatgt tgaccgttgc 3540
actaagtgtg aggaataact ttaccatgtg ctctagtgtg tttctgttca catagattag 3600
tattatcatt atttttcgtc tcccactacc caagcgacat agacattgta cgtaatgtgg 3660
tctgcagagt ccaactgttc cgcactaaag gcatgctaac atctacgcat cctcaggatt 3720
atgccgcaac aattctgacc cggtttagca gaaataatac tgccaacgac gcgtatcatc 3780
ggcagttgtg ggagacccgg ggtggctcga ccagctgaaa aaaaaaaagg ctctgtagct 3840
aatagagccg gtagagctga aaggatcatt cgttagggat ggccgcgct gtgagacatt 3900
tctaaacggc ttttccctta gattcactta tctgggttga acggtgcgac ctgttgacat 3960
gttgagatct agcaaactca gacagctgtc tgtctccact tggatccggt catcaagttc 4020
ttcagtaaag gatagttcgg ccagctcatg ctatggaaaa gagctgggtg tttcgactgc 4080
tcgagtcggt taaacagtaa catggcgctg cagtaaatac acgccagtac aagagggacc 4140
tggttagcat gttggtttga accctgacaa cgtaaacaat acaaactgac aagagctaga 4200
tccaaatcaa aagtggaatc tgctgttgaa gccgcgatgt agcacagccc cagccaagct 4260
tcatactcgg ggcacgaac catgccccaa gcggccatta gcggttttta ccgctgaacc 4320
ctcaaagagc cacccttcaa ggacgaaatt aggctatgta agcagcgagg cttgcagtag 4380

taagcctctt caccgcaggg tccagccatt caagcctcta caaaacaagc caggcaaaaa 4440
 caggcgcgag atggccgcgt catcctgttc tattccttca gagcgggacc ctgtacgatg 4500
 aagggtccta ggcagaagca ttatggttga aacagagcga attattctga gttgtaagtg 4560
 ctaaaaactt attttggtag aatcgagtcg agtggctacc tgtgagccac aggaattatg 4620
 ccaaagtgac cctggtagac agtcgttgac ggcgcctgtc ctagaataat cactcataca 4680
 aagagcctcg agttgtagta gtatagtatg gtgggacgtg ctaggattgg acagcttctg 4740
 tttcttattt tctctttttt tcttggtata tgaggttgta gacgcttatg gtatcactta 4800
 atgtcagtgc taccgctgct gtccttctga catctgctct tcttcacatc tatctaccgc 4860
 gaaacgcac atgctgctat gccttttata tgtatctgct cttcttctaa gagggctctg 4920
 acttgacgc gagaatatag acttccagcc tcctcctgta ccgccctttc cagccaacgg 4980
 gtcataact gccaacctgg agtcttcaga gtgtgctttt gccccagcg attgtgtcaa 5040
 cgtgtcgggg tattcctcgt ccctgggtgag cccgctacgt gcctgcctgt ctgccttttt 5100
 gatatgctgt catgtgtcat catcgattga aactgctgaa acctcactaa caaggccaca 5160
 gaccatcaga ctactctaa acaatggctc cctgctcgcc aacaacgtta gcacttccc 5220
 tccttctcta cccacgcgtt tccaagtcga gagacactgg gccgtagact cgaaacctgg 5280
 atctggcagc gaaatcgtaa cgggtggcata taagacagac gtacagtcta tcccgccgtc 5340
 gcagaggctc aataccttac ccgaacgcgg cagaagcaca ttctaccgcc tcaagcttag 5400
 ctttttcgat ttgcaaggct gacccgccac taaaagacct gtatctgtgg gtctcgttcg 5460
 tactcaagct cgacctggga atgaaagcgg gatcggggtc gagactgggt ccgagagtgg 5520
 aacgtccag gtggtccaga ttgaagagac cgtccatcgc gtatatcacc atcacctcca 5580
 tacatctcag aatcgcaacc cagatggtac atggagctgg tggcggatga aaagttggaa 5640
 gtcgtacttt atttcaaaca atcgcgaggc ttcagaatca tcagggcagg cagagacagc 5700
 aacctctcgc ctgcctcatc ttgacactac atctgggatg acaggtaa at caaagggacc 5760
 ggcccactgg atcggcaacc ggcattcctg gcacttttcg aagctagtcc ttgttcccgg 5820
 gttcttgag ctggccattg ctgttctctg ttctgtgact ggttatctca tgggaatcgc 5880
 cattgttgcg gtgtacgagt acttctgcga gagtgatcgc gcttgttcta aggggcctga 5940
 ccctgaaaga cctcccgggg acgatgttat cttcgactct gataccgaga agcgcaggct 6000

tagtatcata tccagtgact caagcgagtc tgaggcgtat atatagatgc catccagacg 6060
 agctagtagt atacgtgttt caatacgtat acatataccg ttgtcgatcc cacagatatt 6120
 gttcaatatt gttcaattac gttacgtatc acttgccctag cttctaggac agcccgaaac 6180
 gagttcctca cttgacggca ttgccgctcg gcgtagtaat tcatctacct ggcctactat 6240
 aagttgtaaa cacttcctct cctcgaaatc gagcaagagt ccatacgtaa aatatgcgga 6300
 gtgtggagta cggagtattg actgcgggta gggctcggct ctggtatata tcgtcgggta 6360
 ccgctaatacc ggattaggct aatttaatcc ccattaatgg agataacgcc gttgacgtca 6420
 agtctccgtc aactgcccgt aagttataat cctagtagca ataataaata atgtcgtgca 6480
 cggagatacg cgtcagcaga cttatgctga catcaagcat tccatgagcc agatgctgtg 6540
 gtagaatcag ggcggatggg ctggttcatg aaggcagact cgagtcggat gtccctgaga 6600
 agccagaaaa cctgatcagc gatcagcggc tgattgatcg atcttgacgg tagatcacgg 6660
 aagacatgga ttaaactctt tggagctttg cggattgaga acaatgtcgg acccggacct 6720
 tattcggtac tgaatttggt gaacggatgg gcgtttttca gggccattcc ggtaggggtt 6780
 tcttgtagtg ggcactgggc gataaagttg atgtagagca tcatgcccgc aagcttgagg 6840
 acaagtgtct atcatcctcc ttagatttga atggcaatga atgccgcgtt agttgaactc 6900
 attggctaca aagctttgga ggtgaggctg gcactgcccg cccaggccag catgcgttga 6960
 gtatgacgca agaggatgca gggtgcattg acctataac acatagggta aaaacgccta 7020
 cgttcccagt tcgataagcg ttctgtaact gcgatttgag gacctgttct ctgactgagt 7080
 gaaaggggtc tcatgtatcg atataaacgt cgctaataat aatattgatc gccaaagatgc 7140
 tgtcgcgacg ttttgaggtt tccctgctgc agtcatccgt gccgaagctg gcgcgggtcca 7200
 gctgcagggc gcaatacaac agagttgggt ttatcaagcc gccgacgccg gtcgtctggg 7260
 cggccaggac gatggctggg ccagcgaatc tgaaagagaa actgcccagag aaggatggga 7320
 atcagcgatt ccgggagttc atgctggagg ggaaagtttt cgcagtgact ggagggggcac 7380
 ggggactggg cttgacgatg gcggaggctc tgggtgaagc tggaggagag gggttcgttcc 7440
 cagtcatata gatcctatga gaatgttgag gatgctgacc agtgcagtgt actgcctcga 7500
 cagactaccc gaaccagacg acgagtttta cgccgcacaa aagcgcgcga atcctgactt 7560
 cgggggcgcc ctccactacc gccgcatgga cgtcactgac gacgctaaca ccgaagctat 7620

cttggatgat attgcgagca agaaggaccg cctcgatgga ctgatcgag ccgcgggcgt 7680
 caaccacgtc aaagatgcat tcgacctgac gcctgagatg gtcgataagc tcatccacat 7740
 caactatacc ggcgtcttca ggagcgcggt agcagccgcg cgcgcaatga cggctcgaaa 7800
 atgccccggc tcaatcctcc ttgtggctag catgagcgggt ctgatcgca acaagggaat 7860
 ggcgtcggcg atctacaact cctccaaggc agcagttgtc caattgagcc gcagccttgc 7920
 aatggaatgg tcagaatctc gcaaggacgg aacgggaggg atccgcgtga acgctctgtg 7980
 tccgggacat attgagacgt cgatggcgca gatggtagatg gagaaggatc cggagacgag 8040
 ggtcatctgg gaaagcgaga atatgatgaa gaggctggca aggccagagg agtttagggg 8100
 gattacgtg ctactgatga gtgatgcgag cagcttcatg actggcagta cggttgttgt 8160
 ggatggaggg catacagctt ggtagtcatg gccggttcat agactgcagt acctttgcat 8220
 caatacatte tactctacca ctcataatct gaagcctaaa tatggtaatc tcagatgctg 8280
 ctgccgtcac gtgtgaagaa tgaccgtcgg tttataacac tgagatatct tctccaccaa 8340
 taatctcaac cttctaataa aatttggtaa ctctgacac ctacgggtcac tacgggctat 8400
 tagatacgac gcaatctggc cggtcataag aacaatatca gttgaacttc gaaaccact 8460
 tgcgaaagtg gtaagtggct tatcgtggtc tattcagaag atcaagggtt gttggattac 8520
 tgggttgctg aatctgctgg attacgacct tttagctttg cagaacgctc ctgctaataa 8580
 gacccttagt aatggcttat gcgatcgtag gcgttttcta tcttagatct gttgagggct 8640
 gtatcctgca cgggtgcttg agctatgtgt tcatacaacc accttcgacg acgctatcgc 8700
 cagcaacaaa ccgccacatg agctttacag agtgcgatat ctgagtggag ccgagcagcc 8760
 tatgaacacc actgttctgc cctattcggt atcttccttc taaacgggtc aatttgaggt 8820
 gctcttccga cagccagctg aatggatatca gccatcggac atcggaaggc aacgccgatc 8880
 agggatttga gtattgtgca acacttggct gattcaggag cagagacgaa gtacaagccc 8940
 ttggcttatg gtcttcttg tggatttcca ggacacctat cggcgatgtc gcccatgtcc 9000
 gagaatacat aactgcactc caacctatcc acgccccgga tttcccttct tgactgtttc 9060
 tgggaatgcg gggctcctcg cctcacactc aatatagtta gtacttgta ttttctatgg 9120
 aagggtgatt tttatccgc ctgattcgaa tgacctcgga attgtcgagc caagaggcaa 9180
 tgccgtcttt cagggccta gggagttggg caaataaat agacctaat gatcctaag 9239

<210> 3605
 <211> 2673
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3605

tatttgtccc tccagagtct tttttctctg gaatcaatcc agctccgccca tccgacctgc 60
 tccccaacac aagcgggctt ctgagtagcg taatcagcga atttagtacc ccaaattcca 120
 tcttgagctt tatgctatag agcagggcac agtaccggtt cgcggaagg gcaagggtcca 180
 tgtagatctg cactagaaac cctgtatcca gtactagagc cgcaacctgc acgggcatga 240
 gatacaccaa tactcttttt cccgcgcggc cctttgcctg tgcgatcgga tgcagattac 300
 gatacgctg caccgtgtag atggcgacac cgacaaactc gcggacagta gcgcccagaa 360
 agacaatgcy ttcgaggatg tactctgccc ttgcaagacg cgggtggcgc gtgctgacca 420
 gtgtcagcgt caccgtcagc tgtgcgggca cggagagcac cgaagtcacg atgatcatta 480
 tcagaatacc gcggaggatg cgatacgtgt gcaggacgag gtgtaaccgc gactacagaa 540
 cgaggatatg tgccgtcaag agagccgtgt acgagaaggc aaagatataa ccggcagcga 600
 gaagctcgt gaagtctgtc ctgaaagtcc gcagcgactg agctatgacg tatgcggcca 660
 gggagagggg agaggtgagg atgctgcca agtacagccc ccgccagcgg tcgaagggtg 720
 tgaagatcca cagcaagagc tcgaggacat tgtagccagc gatgctgagg aaaattgggt 780
 tgataatata gaagggtgac gagcatggga ggccagacgg aagggacgcc gtgtcggaca 840
 ttgcatggta gacgaagatg cccagctcgt gatttttttt ttaaattttg attccagccg 900
 atatggtggc tcgcatacta gcaatattaa tggaatttaa tgacgactcc ctccaaggat 960
 cttcgaccct ggtttctttg tcttgctgga gaccaagaca gatcacatcc tagagcccag 1020
 attgtgggct ccgggatatt gagacaaaga aagtctatag cgcaaagtaa gcacaccttt 1080
 ccggcttttc caactctatt ggatttgggg ttgcgcacgg gccaaaggta attcgacgat 1140
 aaattgatag cagggcgaaa cctctatcct ttccacaaat ggcgctctaa gaggtaggcc 1200
 gtgctgtcca gggcccttcg agggacaccc agggctgccc tgctctgctt ccgttcggtg 1260
 tcacgacggg acaaccatga acctccacat gggcacggcc gatctaaact gtcgtaccgg 1320
 gggcaatagc tgtcgatcga caggtagcta tcccgcgcgg cggcgtgtta caagaggatc 1380

aattggtgca gggatgtagc cgtgtgagcc gtgcccgcag tcatgaatag atatacaaat 1440
caagactcta attgtgctta atcctgagca gccagatctc aagtaacctt attgattttg 1500
ctttaccatt ttctttatctt cttatcccct tcttttttct tttcttttct tttattttct 1560
tttcttttct catttttttt tttttttttt ttcaaattta tagcttcctt tagttggacg 1620
gaagcaagaa gacgattgga ttggacaagc tgtacacttc cttcagcacg ggttaaggca 1680
aattctaaac tgtgttccata gttgtatatg aatacacacc ttacacacca tacacataat 1740
tcacataata tatagtaata aataatagat gcgccagact gagcctcata aaccgtcagt 1800
tttaatggct cgtattttctg agggtagcag gaaatcatta gggctcgcct actaggccgt 1860
ggggctaattg ttaccggcag gtctgtctcg ttagaattgt acctctacag agcgcaagct 1920
ctaccaagaa atcagccaca ggcccactgc attagcttca gatggccttt gtgcgaccat 1980
aggcttctcg acaagatggg gatcgctact ttaaccaatt actaatactt taggtgtggg 2040
cgtattctgc gacaaggacc tgtgcaaata gtcgtcacgt gttgggatag tattgcttgc 2100
gtggtttatt acccgttttg atacgaaaaa ttgatgaatg agtgatctca aaaaacatat 2160
ctcgaatgcg gtggctttga agtctgggtat gctgtatggg aaagtaccgt acagccccct 2220
cgcccaaccc taaagagtcg acttcatcca atttcttggt tgcactgcgc agcacttgcc 2280
gagattgac tatttgtcgt gctcgtaagt ctctcaatg ggagtttcgg cgtgtcgcag 2340
tttctgtgga tcaccccgaa gcagagacag ctctgtcagc gcacatttct ctacagtcct 2400
tcgatatccc ggcgcgcgaa acctgcttga cccgtcacc tccagcctta ttccgactca 2460
ccacctacgc tgcagtcagc agtcggcatg gccgatcctt aggtccagc cagcaaccg 2520
agtagcagga ggatgaatgt tcgtagcgcc aaggcgccga gacccccgca gccagccgat 2580
taatctagta catatcgacg gtctcgcgt tttctctatc ttatgccctg acaatcacca 2640
ctccattgta tgcgtccgt cagcgatgga gaa 2673

<210> 3606
<211> 12986
<212> DNA
<213> *Aspergillus nidulans*

<400> 3606

ctctgtgttt cttccttggg atgttgact cccacactc cgtgagcgaa tatgcctct 60

gatcgtgggc ccctgactgg gtgtggaata tcccaccact cgaactctgg tgggctctgt	120
gcatgctgta taacggcagt accaggtgca ttccgccgaa ggcgctcctg acgttcagtc	180
attctcctcg cccgttgact aggtttattc tctctaacgc tatcccagcg cgctgagccg	240
ctcgggtggct gtgttggcgg agcagccgct gctggcacga tagccagtct gctggataga	300
tcatgatttg ctggcgatgg gtagggcgga tgtcggcgca gtctgtttgc aaagtgttga	360
cggaagaacg agtatggccc tgtcgaatgc ccacccgaga gtttccccgc gaggtaggct	420
gctgtgatca cggatgatgag ggcgacagca gccagagag ggtaccagac tacggacaca	480
gagaaggtag tcatcccgaa gataccctat ttatatacgt atgagctgca atgatccagc	540
caaggtcgga ctgctgatac tcaccgagac aaaggataga ggtaggaatg caaatgccag	600
tatgttgagc cgagcaactg cttgtccttg ggcgacggtt tcggtgttga agacctccaa	660
aaaacataac attattggcc tcattctacc gacccaagaa gtaagtataa gccaaaaaaaa	720
aaagacttac taatccaagc aagctgctat actggcttga gatcacgcc gacgtttccc	780
agtgatgatg caagtcatcc agcaggtcag ccgccctctc ggctagcgtc tccctgaaag	840
gagattccga tggccatgga ccattgtac gttgcgaaat gtagtcccg atgcgctcga	900
aggaggcaat gtgcagtctt aaattctcac gcagggtgat cacgctcgag gcggctttgt	960
gcagcttgcg cgtcagggtgc agcgtcgaag gacgcaacga gtccctcgat gcttgagcat	1020
cgcgacgggc aacgtcgcg cgggccacat cccatacccc gggccagtcg ccacaggcct	1080
gaaaaagatc catgtaaata cagagcggac agtggaggag ccgtttcata cgccagctgt	1140
tattggggcc ccttaggtac ctgtctagcc gtgggagcag tgccagactc gccagccaga	1200
gaatgatgac cggatcattg cctccatgt tgcggtcgag tcgacaggcc gagatgatga	1260
gtgctgctat gccttggacc gtgatcgctc cgtcttcgaa attcatagtt gggacattct	1320
gctctgtcgg gtcattggctt actgcgaggt ggtttaaaag gaaactgaat tctgtttgag	1380
tgggatcttt ctgagctggt gcagcaagct cgaagacacc cggcacatac cttttttctc	1440
ttcgtcgtag gacggcctta ctgccatact tggaccttgc ccgttttcga gattgaggta	1500
attgaaaaga tctcgtggga agccattgaa ctccgaataa agcgtatcaa gaagccacga	1560
ttctgatgga ctgccaaaa atatgctgtg tgttgcatca atcactacct ctcccatcaa	1620
accctagtca ataatgcagg cttacacgat cagaacacga ttttggattg aacacttcct	1680

caagcttgcg	cgcaggtgtg	gtccaatagt	ggtagcctgt	gagtgtgaga	agcgttgcg	1740
tacgaacagg	ggatcttccg	ccgcttggtc	ggggcgcg	ttcgtgtata	ctgtgacagc	1800
ccgaggggga	tctggttgta	gaggtgactt	cgtcatgctc	taatgctcta	ctgtaggctg	1860
gagacccggg	aagataacag	tggtttgat	tacttcgtgg	actttgtggt	aattatatag	1920
ggccggtgag	cacgatgtgc	cccccaagc	tgaggccag	cccagttcag	ccaggctaga	1980
aagcctgtga	ggctgccc	tctgcgtcgt	gcggacgct	cggactacta	tttgcagggg	2040
ttgttattgg	cagagtcaag	ggatgcaa	cccaaata	gcgatcaagt	gggggttagg	2100
cgcctaaagg	agaaaaagcc	agtacaatcg	accaggcaga	agcatcctgc	aggaagatac	2160
aggatacccc	tgtatagatg	gcattatacc	aatagagtag	gacttttagat	tcgggtcta	2220
tgataatata	caattcgagc	agatctatga	acaagagatc	cggaaggcat	gcttaagagg	2280
agtaagtgca	agcaataggg	ttctcggctc	tctcaacacg	ggcagcgatt	ccgacgcagt	2340
ccttggtgcc	gcccgggttg	gcgacaccag	cagaggccca	gatgctgtag	gcactatcaa	2400
tgctgttggg	acaagcaatg	aggctgttgc	cgtcaa	gaggtggttg	ttttcgtaa	2460
tggaccagcc	ggccgctcg	ctgttgcgag	ggccactggc	attgtcaccg	gtggtgtatc	2520
cgatcaagcc	ctggcctgtc	gtttgttagt	attgaacagc	aatacgggat	gggacggcgg	2580
tcatacccat	gccggaacgg	tcgacataaa	tttctgggt	ctcctcgga	ccgtagagat	2640
agagggctcc	atccttgatg	tagaacgtcg	cgaacccgct	gtcagtgccc	tcacaggtgg	2700
cgttctgctt	ggggaggccg	gcgaagatgc	tgccgagagc	agcgttgaag	ccagcgact	2760
ggacagcatc	accagagcgg	atggcaacaa	ggccaaaggt	ctcgggcgtg	gagggagcag	2820
cggtagcagc	gacggccaga	gagggcagag	cggcggtaga	agtgagcttc	attttgctac	2880
actcgaggat	gacaatgaat	cgtttggatt	gactgagata	cgctgttga	taggctgatg	2940
tgtgacagat	tgttgatgat	gatgatggaa	taaagacgac	ggcactgggc	tgtatttata	3000
ggttgccctc	accatgctca	atacatcaaa	tgaccctgag	gaggcgtgat	tggcctccac	3060
caaggtcagg	attgatctgc	acttgatgac	tgaaacctcg	gctgttgacc	tcatttctcc	3120
acagaatgtc	tcggatgctc	gccgtatctc	cacaagaaga	atgaatccag	gacgattgac	3180
gtcggatgtc	taactccgtc	cggctattga	cccactaggt	ctttgagcat	ggagagagag	3240
gtgccacatg	aagaaggcca	ttctaaat	actagttcct	ggtccaccct	ttccaacgac	3300

ttccccctgag tgatgtaacc ggtccgagcc agtattaatg tcttattttg ctgagacatg 3360
 cagcacttgg caggcagcaa cgctcagccc ctgagcagta ctggtgagtg gcgtctttca 3420
 aacactgctg agtggtgtat cacttttccg ctgtacagga cggcggttggg agcgtcttcg 3480
 accctgccgc atatggatgt gcacgtacaa gtagaccctt aaaatgcagc caggatggcc 3540
 ggctcgataa gcgcaacgtt acaaaaagtg caaaacttgg cgtttcagtc agcggccttg 3600
 gtggcgttcg tctgaagggt tgtgcggatc tgatgctgcg cccctagtcc gaagatatat 3660
 tggctcccag gctagaccgg atgtcatctg ctgttccatt gtggcgtagc agcacatcca 3720
 tctctttgat tcttcttagt atcaacggct cgatgcttat ttatccaaaa ggcgtgtccg 3780
 cgtcgatttg ccgacggaaa cagggttaata agcatatata attgttctag aaatctcata 3840
 aaatgccatt tggcaacaat atgaccagtg ctggaaagat tccccatccc agaacgggat 3900
 catcaataga taacgtgtaa aataggcaag cctatgactt tcggcctgac tgattattgg 3960
 atactgattg tggtagtacg aggagtatgc ctgccagaac ggtctagcca ttcagacagg 4020
 tagaacttgc gctgcccttg gagcccagtc gatcattctc tcaataagtg gctagctgaa 4080
 ctatttcatg ccaacctgat cagcagatgc tttggatctg cagcatgcga tgggcaccgt 4140
 ccttcagaac ccgtaacctg atccctgcgc cccattgtcc agaccccgac cctgggtctg 4200
 cagtagttta ctcgtagttt cgctagggcc ggactcagtc tggggccaga gtacatcgta 4260
 tatgacaata agacacttaa cggctcttgg taccaaatac gtttttgagt tgacggcgac 4320
 ttcaataact agcacagcga ttcaagctat tccagaaacg taaatagaat tatgtcttta 4380
 gtatggttta tatcaatgca gtggaagctc tacagttctg ccttgctaga gtctcaaag 4440
 tgcccgtcgt acgtccatgt caaagtaacc taacaagcct ctgcagtatg gtttccttgc 4500
 tagaagtcct tctcatttgg taaaggctct ctacaatatc aattgtaagg tctacaccag 4560
 tccatcaggg aaagcagcct ttattcgaaa caaaagatgc tgaaatccat aaccgagaaa 4620
 caaatgtcct tggatccgag tagacatcaa acaggcttgt ctcttcaagg agccagagaa 4680
 aaaatataga tatatgaatt agccgaagcc atagcacttc cgtctaagtg ttagtactaa 4740
 atagcggtea atatctgtaa ttcccttccct tcaccctga atatagtga cagacaacat 4800
 ccacacatcc gacacaggct tatgctgtgc aagagacggc gagttcatga aaagcgaccg 4860
 agatacaatg agctgttttag aagtaagtct gattccctac cagtcggcat gcagtgcagg 4920

catcacctga gacatgggac ccagtgacat tgccaaatcc agtgtaggcc cagagggcac 4980
tagtatgcaa ctcgtaatcc tctgggacag attcaatagt cagactgggtg aacaacgttc 5040
caggctctgct cgtacgtgct gttcgagttc ggtgaagtcc aagcctagca caagggttca 5100
gataacttac cgcctgtacg acgttgattc tgacctgcag cgggtgcagtg ctcgtaacct 5160
tcatatatca caatggactg gatcttatta tgtgcggttt tccctttgtt aagatgcaat 5220
tgacgccagg ttcagtcgag gggggtcggg ctagctcgag gttccaccgg gggtaaacc 5280
acttctgagg ccgcttcttg tcaaaagcgg ccttcttgtt taccagaata acaagcccat 5340
tgttctaccg gtcggcatgg tccgttgctc ggtggaatca gcgccgaata cgaacagatt 5400
gccgataccg gtatttcgtg cgggtgtcga gagatcctag gtgatgtcag agaacgtcgc 5460
tccatttggg agtagtacgt ggttgcttga cagcctattc ggaatgaagg agcagattat 5520
aatctcgtcc atagtgatgc tgaatctgcc gcccggctg ttgacgggtc agtctctcat 5580
cgtcaactaa gaggattgat tgtagaccg ttcgttggtg ctgtagatgg caccacggta 5640
taccgattag gcataggtat catgacatga gctagaatcg gttcctcgta gttgtcgtcg 5700
ccagtgcata cgtccagctg tgtgggaggc attggcaaca gcgctgttg aaatgttgaa 5760
attgaaggcg gccgggaact gaagagccta gcgaggcatc agctctgata aagaagcgag 5820
tttagatttt gtcactccta ccttacgggt tcccagaccg gtctcctgag gattgaagct 5880
gtagagaagc ctcggtagac tagcgcacgc ggccagaaga caaacggcat ggcgaactcg 5940
gaaggaatta atatcgtaa tcatgacatt ctggggttct gttagattca aattcctttt 6000
atacaacatt tatgtatttc attttatctg tctattcaag ttatcaagcc atcgcttagc 6060
ctacttagtc atcggtcgag catctctaca agcaggcaac tacctctctt ccttcttgt 6120
cttcaacca gcaactgcatc taatgaagat gactccggct gtgcggcgat ggcgacgcaa 6180
gttcaaagca tgcgacccat gctttcgtaa aaaggcaggt gttgtgtacc ataagagccc 6240
ctgcgagacg gcttgacgat cccctagatc aaatgcgatt tggcagtgcc caagtgcaac 6300
tggtgctatc accatgacct atcatgcacc ttcacttggtg ataatatggc acgtgctcca 6360
gggtatgtcg tctatagggg ttctttatat agtgactttg ctgatcctgt gcttgtgcct 6420
cgagtcacag agaccagtct taaaccgcgc agagtcggga cttggacgcc acccagactg 6480
gtgatcagca gcaaggtgtc attgaaggcc cacgaattgg tctccttctg ggcaacatct 6540

acgcgttcaa cggcttgcca ttcttctcgc ccagcggtcg gcagtggatt cgggcccaga 6600
cagggcaaga cgtcaacctc ctgcagtata ctcttccaag acgtttacgg actctgcatc 6660
ccaatgcggc ttgacaagg atagagctac ccgatatgca ggtgctctat cggtatgtca 6720
atztatatac tacgtctgcc ttttccgaca tcttccccctt tatcgacccc tcgctcttcg 6780
aacggaccat tgaaacggcc taccggggac gagatcccg c atccggcgac atggcctcgg 6840
gccaggcttg tatctttgct ttcattgtctg ctgcatctct tctgttggaac gaactaactg 6900
accgtggagt tctccaaaat tgacgtgtat gctgctcagg cataccaact actgccagga 6960
ttgtttgggtg atccagccgg tgtggacggc ctgcatgctg tattgatgct agtatgaacc 7020
tagtctgaaa tttagtggga tgagcgcagc tgatctcctc aacagcgcgt ctacaaccaa 7080
gccattgcgg gcgatgtccc tggcatggag ctgctgctag catcggcaac ccgcttcgcg 7140
tatacctgc gaggaatgt ccatccagac aaagcgggtg ttagaccttc acgtctcagt 7200
gctcatattc ggaacttggt ctggctctat tatgtcttca accaggaaac aaccatgcgg 7260
accgctctac caccggccat tgactactcg aactgcgac tcactttgcc gtcatttaga 7320
atgtccacct gcgttcttac aattcatacg ggtgaccatc atacagtccc agatctaccg 7380
ccggctgtac tcggcctcgg ctatgggcca gaccaacgcg gagctcctct gtactattcg 7440
gaacttgaca ggaacctaaa ggattggaag gagtcgggcc cttcagactc tcgacctact 7500
cttatgagac ggcccgcga tgcagggagc atggcatcgt cggttctcca gctgcaatat 7560
cactactgcg tggccgcat tcaccaagcg agcggccgct gcaaactctg gactgacaat 7620
caggacaccc aggcacaagg atccagcctt gcgattagtg tggctgcaag tcagtcactg 7680
ctatgcaagt tctctgagct tgaactgtat tttcaccatt ataacttatt gtgagtcaac 7740
gagaccttct gtatatgaga cgtagctagc tggccctaac tgacctctt ctaggttcca 7800
tcttccatac ctgacggctg ccatgateca cctcttctgc aacatcctcc tgtactcacg 7860
tgaagagagc agccagagca acttgagct tatagtcgga gtgccgatcc gtatgggggtt 7920
gcaactacgg tctgatgcgc ctgccgcgtt ccgatgcag gtcaagtacg tgcaggacct 7980
gtgcggtgaa atagaacgtc ttgcacacat tgctatttcc tcgtcgaaac aataagttgc 8040
tcatatccac cagcatcctt cggcactctc ctgttccact gcatctatcc gatccatgga 8100
tagatactga atcagttgca gatccccctg ccaagcattc tgtggcgatc cggctctgta 8160

cttccggtga gtcagcggtc ttactgacta acacgttacc agcattcata tgccgcgatat 8220
 gaacataacc atataactta tttcaaataag attcatgacc cagtgggatc ggctgtcaga 8280
 tatgtgccgt ccaagcctgg ttcaagcctg gttcaagcct ggttcaagcc tggttcaagc 8340
 cttttttggg aattgatata aatggacttt tcattaggat ctggactgta ttgttgtctt 8400
 taaatccagc tgactaccca gcatgtcagc tccatccgct atacaagaag ctacacaaga 8460
 agctaacaag aagacattgt ctttcccgac cccagatggc ggccattttt ggaaatttcc 8520
 cttcgtggcc aaacatcaaa ccgggggttct tcgtcgccgt cagcatcagt ttgctgataa 8580
 tccaggtcct ctttctcgcc aacctctcct acctcaacgg atcccagttc aaagaatttg 8640
 agcacacca caacctcaat atcccagatg ctgactacga cggcgggtatt gttggccagt 8700
 ctgttcttga tgtactatct acttgaaggc aacacctttc ctacgggttaa gcacttacct 8760
 accgagaact ttctgcccc gagcgatgta cggagtgtctg tctgctctgg tgactactgg 8820
 ggcgccattc atcagtctag cggcagccct ggtaaataga agcaacgccg tgactccgac 8880
 tacgcttgcc tatgtctgga acgggggcaa ggagatcaat atcaagccga gcaatcaagg 8940
 gacctgagtt ctctacaaca gcgtgtcgat gatcatgccc ataattatgc agttcttctt 9000
 catgatggcg cttaacggcg tctcagcgca gtatagactc ttttcaacat taagctggtc 9060
 gacgaagggg ttgatccgga tgtgcgtctc ggtattctac acctcgtca gctgcctctg 9120
 tatgattggg tatacctggg ctttcaagga ggattgggcc gtgaacagcg cttagtttgt 9180
 gctaagctgg atgactatct ggctgtacat gcacatcaac ttctactgt tcgatatcat 9240
 gactacgttc attcctatgc agtttatgcc cttttgcatt ctcacctgga tgatcacaca 9300
 cgtagctagc accatcgctc cgtttgagtt gagtccagga gtctaccag gggcttaccg 9360
 ttgggcctat gcgcttcccc cgcgtaaggc gtattcgatt ctcagccaat tctggagcga 9420
 cgggtgcaac aaccaaccat actaccaata ctcttctctt ggtgggtcat cggagccctt 9480
 gttgttgtct attccttaca ctaccgatgc aggcaagcgc gcatcatcgc aagacccaaa 9540
 tctcggacaa tgcgatcaac gagaaccagg aagaccggcc aaaaacaccg gcaggtactc 9600
 cagatcgcat tctgtccgc gacaggcgtt ccccgatgga gtcaatccag cttgagcagc 9660
 gtgtgtatgg gcccaaatat tctactatgt taggacctt gataatcggc aattttcttg 9720
 tttgtgatag aagtgttttt cgcttatact acttgaggcg gactttgact ggtgaatata 9780

tatagtggga catgaactaa tggacgatgc tgctcatttc tatcacatta agaacgagcc 9840
tcataacact tcaaaaaccc gccaatag tagcgtaata taatcatatg ttgagtcgtc 9900
tgaatctgag atacagcaag tagaaaggag tgaaagtttc aaagttggaa atagctggga 9960
tatagtcgaa ccgcaagtag taaactaagt tctggctagc cttaccaata aatcatggaa 10020
gaataacaac tttctcccca gaaactccag ccctgttctt gtcgagcgcc tcgtcgatct 10080
tgcccaaccc gccctcgact ataacgggccc ggttgggagt gaacttgccg gtcgccagcc 10140
aaccatcttc ccccccaagg cttttcatta acggcacact caggtatcgc aggtcggggc 10200
tgctccccag acccagcacc tgacgaacat cgatcttgag tgacttgaa gcaccaagtt 10260
ccttagcctc tgagttgacg gcctggacta cgaccacctg gctctcgatg cctgctgagt 10320
tgaggatctc gacgccgagt ttctgagtat cagcatttga gatggcgta aagacaaagt 10380
ccaaggaag accgttgagg gcagccacaa agtcttgccg gcctgcttgc ttccggtcaa 10440
gcaccacatg ggctccaagc tccttcaggt gcgcttcgtg ggtgagactc gagttggtca 10500
cgatccggtc gtaaccagag agtctcgcaa gctgaataac atactggcca actgaggaac 10560
tgccaccaag gacgacaaga gcatttccac tgccggcgcg gtcgccgcc tgctcccaag 10620
ggggcggggc gagggccccg cccgtcttgt cgtagaggcc ggtgataccg gcaatggtgg 10680
caagactgat gcccgcgcgc tgctggtcgc tgatagcttt cggcgtcttg ccgaccagct 10740
cagctggcat tttgcagtac tgctggaaag tactcgctc gtagttgca atgatgccct 10800
ggaagaaaac gcggtcgcca acagccaggt tctggacgct gtcgccgaca gcgactacct 10860
ccccggcagc atcgctaccg agcactgccg gataggaggt cagaaagaca gaatagtcgc 10920
ggatcttcca gtcgacgggg ttgatggctg tcgcggtgac cttaatggcg acctcgtcgc 10980
tgccgagggg cccgagggag cgctcgcaa tgggtgtgtc agggctcttc tcgtgcagga 11040
gagcagctcg aaatgatgaa ggaacagaca tggtcacggg ctgatggatc gacagcaatc 11100
caagtagtta ttgttgata gaaatagaag aataatggaa atggcccatg gaagcccgca 11160
gatactcgta gtgactgtct ggtcgcgagc ggggctcgct tgtgttattt aaaagcagat 11220
gacatcatct ttatgcatgg aactatgtat tacatgcatt atttaaactg agaggtagct 11280
gaggtttata tatgaattta ctgaaagacg agtcccgtag atcctccttg atcagatcag 11340
ccgccttctc tgctagagca aagacaattg cctggatatt gccccgcggg atcaggggca 11400

tgatgcctgc atcaacaaca cgcaagttct tctgcccata cactctcaaa cgctcgtcca 11460
 ccaccccacc gttctctcgc ggtgccatgg ccgtggtgcc tgtgacgtgg tagtgggcca 11520
 caatacggtc ccgagttagc tctcgtgcag tgtccaggtc atcgacgcgt ttgctgctgt 11580
 gcagacgacg accgtgtttc ttgatcagag aagccattgg ttcggtcgag gccagggtct 11640
 cgagccactg agtgtgcctc gcatggatct caagatcaag aggatgcgag aagaacttgg 11700
 ggtcaaagac gggcggcgca taggggtcgc tggaggccag gtggacgtgg ccgcgcgaga 11760
 agggacgggt cagaacggag acaatactaa cgaagcactc tggctcagac atgccgaaga 11820
 tcccttttagg gctcggaccc ttttctggcg tgatctggaa gggggcgagg gtatattggc 11880
 cgctgggctc cgtctcatcc tccaacatct ggcgaggat gtggtactga gcctcacagc 11940
 cgggacgccg aggggtactgg tctcgtcga ggtattgctt gaggagcgcc ttcagctctc 12000
 catcctgcag cgagggaagc gtcattgtagg cagacgcaa cgggcagagt ccgagaggac 12060
 cggcaccga atgctgctgc caggcctcca tggccatctg agccacggcc gggccccgga 12120
 ggcgttcgcc tgattgccgg ccgtctgca tctcccagct gaaaggcacg aatccatgct 12180
 cttgcagggt ctcgccgacg ttcgcgttgt ctaccagaac ctcaatgccg tgcttttcca 12240
 agagtttggc gccgccaata ccagacagct ccagcagctg ggggctttga cggccccggc 12300
 cgaaaggacg acctccacag cggcggcgac cgtccgctgc actccatcct tgggagtga 12360
 ctgcaegcca gttgcaacga gcgagccgtc cgcctctatc ttcagtacga tccgcgcgac 12420
 agtggcatcg gcgaggaccc gcagattggg ccgcttagca acctccttat tgtagtatgc 12480
 cagccacgcg tggcttcggc ttttgtcctt tgggttgatg gtcgccgggt tgcagaaaagc 12540
 tcccttgga acccctgaaa tgggatcacc agtcagtcgg tggtaagat tctcgaacac 12600
 cttggggcag gcggcgctga acgcgggata aggccgtct ccaaatgaga tatgcacagg 12660
 gccgttgccg ccttgacgag tctcatcgat atatcccagc gagagtctgt cacggatgga 12720
 cgggcttggg gacgtgaacg tttcggattt gcgcaggtag tccgatagtg agggccagtt 12780
 ccaaccgga ttgcccagtt cttcccacga gtcgacgcc ttcttgctgg ggtagatcac 12840
 catgccgagg ttgatggccg aagagccgcc cagtgtgcgg ccgcggggct cggcgatttg 12900
 ggggccattc aatccgtcct gcaagagaag gagaatagca ttcagcattt gcttgacccg 12960
 tcaatgtgcc aggcatttga caggag 12986

<210> 3607
 <211> 2096
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3607

```

aaagactacc tctcaattaa atgtgtccaa tgcacttcca aaacggcacg ccagacagct   60
gtaagatgtc accttccatc tccggacaag ggtgtctgtg gtctctttcc ccagctcctc  120
aaaggggtcca caacaatgac acagacgggt aaaggggtact gcagtttcca gagtgcgaagc  180
ccctgtgggt gtttccaaac gttatgatac tttaatacgt tactagccca tgatatgtta  240
ccattctaga gcggtcacat gtcagatggt catgactgag aacaagcttg cacagctagc  300
actagtcggg catacaaaga gaaggccgga ataatgaaca ctcactctcc ttgtattggc  360
cagagactga gcctcatcta cgaagcctcg ggcgatcact cggacgatca cggactcgga  420
ctcggcctaa tctagccaga ccgctcacac ttgagcaaac aaccaatggg gaccttgggg  480
gaggctcttc gtgtcgggtga cttttttttt tctttttttt cctattttcc cccttgttga  540
ccctggtaaa tgtgatgata cggaacacgc ggcatacatc gacttccctc tgcactagga  600
attaagaagc ctgggacttt aggcattcac gaatccaaac tctttgatca tggtagaaaa  660
gcagcagaat accactaatc agtaggaaaa ttctggtacc tgattccgct tagcctcttc  720
ggcttacgac acaagacaac gtaacatatc cgaatatcaa tgacataaca cggctcagct  780
cgcatagtcg tattgtagat gctgtatgcc acctactaga tacgggatag gccgacagaa  840
ccccctcac ctactgtgct ttactcataa cgcaacgcac cattgcccag cggcctgctc  900
caatagtatc ataccgtcag ctcaggggtcc agtctggttc gggttcattcg ttccagcatg  960
gcgttctagt atctatccag tgacccccgc actctggggt gtagacattg tcgaatgcc 1020
aaactctccc taggtgagcg agacagaggt caaatggcca acttactgct ttctccatag 1080
ctatgctctt gatcttgagt cgagttaggg tgtgtccaaa tcgtcaaaaa ttcgtgccta 1140
tggccatata cagatgacgc ggatagggca agcactaggc agaattgagg gatcccaaca 1200
tttttggaag aaccgcctca atctattgat ttgaaatcct gaatggccat ccctgcactg 1260
gcttggctgc tgccgcgaaa gcttttcgtc acgggagatg ggacctacct gttttctacc 1320
agcgaggata cgacagcctg caaccaccgc ggcctatccc cagttcgagc aactgttctc 1380

```

cttcattgtc acattcacct tactcatatc ttatcgacat ccttttgacg cacttttatct 1440
cagtcacgaa aagtccaacg cggtagacg tgggccattc aattcatcga atatacgctc 1500
atcctttccc aaattgattg aaaacccccg ttttaataatg taaactgcta ttagttatca 1560
ttcaggttgg tctctaactt gcaagccatg tcattcagtc gaccgggtct tactttattg 1620
tcctgtcaag cttattttga ttctctctca tactgacaag ggattcgtgg actacagacg 1680
cagcccaagg ccgtctgtct ccagaacagt tccccctggg tacgcttctg ctcgattcaa 1740
gtctaagggc actgtttcta ggccatttct cttctttcag tctggtacag caggggtggca 1800
ccggggccaaa ttactgacta gccgcaacca tgcacagccg accaccgaga atttgtgata 1860
acttagatca atctcttgga caaaggacca gtcgatacac aattggcaga aatcataggc 1920
aactggaggc tgggtgctata caagagcggc ttcaacaagc aatggaatag tgcaacaagt 1980
atcaggagtg ccggcacagc attgccacgg cgttcgcaat atagtaggta gacccaaatt 2040
gcgagaccag gcttgcaggc tctgtgattc tatgtttcca ggccctttcg aaattg 2096

<210> 3608
<211> 3623
<212> DNA
<213> Aspergillus nidulans
<400> 3608

cgataatagc actactatag ggatcctccg caaattgccc acggccacaa ctgcaaccgc 60
tactacccaa gtagcaggac gaggacgagg atccaacgtc tgggtctccc cagccgggtc 120
tctcatgttc tcaactgtag tacgccaccc aatggagaaa atgcagtctg ctccggtcgt 180
cctcatccag tacctcgccg cgttggcagt agttcagggc gtacgtagtt acgatgaggg 240
ctatgacgcc gtgccagtca agctgaaatg gccaatgat atctacgcgt tggacccccg 300
cgaacctgaa cacaagaaac aatacaccaa gatctgcggc atccttgtca actcccaata 360
ctcttctaata gaatatacct ctgtcgctcg catcggcgtt aacgccacca acgccttccc 420
aacaacgtcc ctgacagccc tggctgctcg cttttagagg cacaaggcgg ctccatttac 480
ccttgagaaa cttctcgccg gtattctgac tgtctttgaa gacctttata ctcggtttct 540
tcgcacaggc ttgcacagaa gtttcgagga gatgtattac gaggcctggc tgcataccaa 600
ccagatcggt acgcttaggc tgagggaggt accagggcga gaatcaaggg agttacacgt 660

gattatgggt tgctccttgc tgaagaactt agttgggatg accggcctac gggaagagtg 720
tggcagctgc agagtgatag taatagcttc gattttatga agggtttgtt gaagaggaaa 780
gttaattgat tactgacctg tgggtcggcc cgaaattata tacaaggctg ctataataag 840
agatacatat caaagacagc ttctccaaaa tgagtatgca tgtcatcatg ccaatgtctt 900
aggttactat ttgagcataa tggctattta gcaatgtgcc agtcaaatec ttccacagaa 960
actcttacta ttgattccag tcaagtgaat aagagttata gctagccagt gaggcctatc 1020
ccgacacttg taacaaaccc tgaacctgct gtagagtcgc ggactgccgc ccgactcgca 1080
cacttatcac cacttccggc ttagcagaca atgataatga cgtctcttag ctttctacaa 1140
ccacgctgga ggcagggcca gggggaaggg gtgccataga gaagtggata gtagcgccat 1200
caaatgaaga taaaaacgac atatcgctcc aaaatgattc gggattaatc agagggatgt 1260
ctgtcagcct ggccttcatg attgactctt gctcagacac acctggagtt tcaaacgctg 1320
cagctgttgg ttcacgagcc taccctaata cctacactgc ttgagccttc ctccatcagc 1380
attgatcaat ccctgccatg aataatgaca aataaagata ccctagtgc acaacagtct 1440
actttgcgct aaaggtaaat catttcaaaa ctcatagcca gcggactgat ttcaattcac 1500
gcaacgggat gcagaacaac atccaaagga tctcataaaa ttcatattaa agcacagtga 1560
tttaaagtga aacagcattg ccgcaatggg gtatttcaaa catgaccctg aataagaatc 1620
ttcagaccac tgacagatca attccagcct actccaaatc atcacccaca tatacctgta 1680
gatcagaata taccacttcc tcctcacaat agaccggga gcccggggt cctgtattgc 1740
gcgttttcat gctagcttta ctactcgcg cagtgggaagc cctaattgtg gcgcttgtag 1800
cagcccgagc accggcatga gccaggatcc tcatgacatg ggagacgatt tcaaagccat 1860
gatttcgcca ttgtaggaac catgtagagt actacagaga gcaggattag agaagtctta 1920
ttaggggaga aagaatatcc ggcggcaagg aaacgtctgg aagggagaag agaggtggga 1980
gggtggatt acccgactct tattgtcgat atgggcaaac gccactcag tgctgtcagt 2040
cgcaatgccg tagatttctc cgtccatgtt ctctttcttg cgggcgtgat gaatcattgc 2100
tagctcttca gtttcgtccc atctcagtga tcaaagtgg aaaggggatg cataccatc 2160
accttaagta acgtccaaac cctagccttt cccctcttct tagccttcag aacaactaaa 2220
gccacttoga gattcctagg atcacctgtg aagattacat ggtctacctt tccagtcacc 2280

tgcaagacct tcccggttatt attgaacggc atgctgaaga ttcgcttggt ggtgagactg 2340
 atcaggctac ttccacggac cccggttcgat cgggattcgt tcattgcgtt ctcaaacagg 2400
 aactcgttc gtacgggaat gagcatatth cgcgggaccc tgaatgtcat gtttcgctcg 2460
 agatctcgcc atttgcgtgc tgggtcattt tcatgttcat gttagtcgtc gccccatggt 2520
 gaggatgatg atataggatg agacgagatg gcgcacatac cgatattctt cgtcaataga 2580
 aaagagccgc gtttatcttt cttcgtaaaa gtccacttct tactcgtctg cttttcccca 2640
 agtgatgtga gattgtagta gcccggaact ctgttgctgt ctgggtccgtc ctctatacga 2700
 ccatagccga gtttctgcg cttatcgtca tctttcgctt gcattctcaa ggccaagctg 2760
 tttgcaagtc gtctgataaa gatacagatg aagttattag ggagactgcg ggatttgggt 2820
 gccgtagtgg ttgtagtgcg cgtagtcatt ctgtccgtgg tgcgagtgc tccgatgag 2880
 aatagtggga tctatgatgg ggaaggattg gagatgctga ggagtcttag attcctgtct 2940
 gcgagaagtc atattgcgta gtgggttctg tactcggatt gatgttctcgc gcgtatggga 3000
 gtatcagcat ggtctgctcg gaatgggatc ccaaagcatg ctatcagggc atgctatggg 3060
 gaatttgtgc gccattagaa tctaactacg atatactaga agttgatggg tttgtagaag 3120
 attacagtct aaacaagggc gtccgtagaa gtcggaggat agagaagagt aggcacggcg 3180
 ccatactcca tagccctaga tgtctaccag actggggaag ccgaagccaa actccagggc 3240
 tatgccataa ccaactatagc tgaaccaaca gcgtatcact caatctctc gtattgagtt 3300
 gtacaagaga acaagttcaa tttaacttcc gcgcctgtcc gactctgccc cccatcacca 3360
 cctgcagcca taccggatcc aacctattc atccttcac tcttaacgac agcgactct 3420
 tttcaaaatc atccaagtat gctttttctg tctgttcttc ttgccttcgc ggcatacctg 3480
 ctcatatac agtatgcaat gaccaactgg aaccacgctc gccgggcccg tctctgggga 3540
 tgcctccctt tgctctgcta tccaacagac atactgggtc tcgctaccct cagagagtct 3600
 cttaaggccg ataaagagaa gaa 3623

<210> 3609
 <211> 9352
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3609

ggcgtagaaa cgaagaagac gggttcgtga ttctattact aggcagacgc tgcgcagtat 60
 tagacgacgt ccccgccgag gacgaagcct gagccaacgc agcctcctca tcatcaagat 120
 aatttcgaaa cgtcttctgc gactgcagga tgcgacggac gttcgacgtt actttcgttc 180
 ttgttcctgt cccacattat ttaaagttag cgatactcct actcctttta ctcttcgcaa 240
 ccaacagaat tgcttaaccg aggggggaaa agcggaagcc tatacctctt gtcgcactct 300
 ccctcggtcg cgaatccttc cgcgctggaa tcgcaatcgc aacgtcccta tgattctccc 360
 gatcaagctc cgccaagtgg cgtacaatcg catttgcttg gcgcgaagac acgtctgttc 420
 gcgctgggtc ccgaattccg cgtttccggc cgggtggcgg tgcgattgcg gcttttgctg 480
 ggtcgaagcc tttatcgggg acgtaggctc agcccggcgt ggcgttagac ttggaggcgt 540
 tcgggaggac ttcgacgcgg tacatgatga ttccgatttg agtgttagcg gagaggggga 600
 agtggagtat tataaggtgt ttattaaaag gccatgatat gtgtcgggcg cgtttctgtg 660
 ctttgaagat tataatgctc gatttggtat cgatatctga tatgtacgga gaggcagatg 720
 tttgctctgt ttgctttccc actgccttgt ataattgctt acttaagata tctttattgg 780
 tacgttaacg gcaaacaat caagtactct acatatcttc attaagctca acgaatagat 840
 gaacggatat ttgatcttat tgtacacgac cgctcattga gtgagcttag tctcttaaag 900
 cttcgagaga atctccagat agagtaatca cgatcaacag aagcacttga aaaaaatgaa 960
 ggccagacga ccagaagcaa cgtgtgcatg cagaaagacc taactccgaa atagggatga 1020
 ataaagcaat aaatataact tgcaagtaat gcagatagtc atagatgcag acagtgggtca 1080
 ctcatctctt tttctgcagt tgggtctactc gtgtttccag ctgagagatg taagtctgga 1140
 gcttttgggt tgcggtttgt aaagcctatg acaattagcc tagtcctaac gtatattggt 1200
 cgcagagaat ggaaggctga gaggcacaaa aggcaggaac gtacatcgat atcttcagta 1260
 agcatgctgt tcgatatact gtactcgcca aggatatagt agtagacgac agcaccggca 1320
 acaacggaac cagtaaggaa accaaataat ctggtggcaa gcattagtag ataaaccgta 1380
 tcttgcgtaa cactgttggg tgagtataga ttcacccctc ccgaaaagct ccaacgggct 1440
 tcttgactgg cagtgtggcc gttgatcctg cgtttttcac gaggggagtg ctggagaagc 1500
 atctccgctg tgacgcgatt tttggcggcg tcatgacgag ccggagcaac ggtagcgacc 1560
 gccgcatact gacagacatg ttttattggc cgtgattatg agagaatata atcaaaaaaa 1620

aatattatcg aagaagacgc cggcttttaa aaaaatggtc gaagttgaag ctcaagaaga 1680
gtgacgttat ttggagtgcc gttttgagcg ggaggagttg gagcaaagca gccaatcagg 1740
tgatgcgctc ttatagcacc accaactacta cctaggtatt tctacggacg agtcccagtg 1800
gaagaatgta tagtgtttat tcctagcgta tagtacatat agcgtaaata agatatgccg 1860
aagaaggcta gtttgccatg gtactttcgt tgaacaaatc tgccagcaga tcatcacggc 1920
atgcttccaa gttcggattg ctgatgctgt aggtgctctc aaacgcatgg atgctgagtt 1980
ggtaaagaa tggccggaga actcgatcga caatctcatc tttggcgggt tcacgtatcc 2040
agtcgcccgc cagacctgga taccttacgc catggtggag attggtcgat tctcgggttg 2100
gatcagatga cgtggaccaa cggaccccta agttgtgaga tacctcatct gcgagcggcg 2160
tggttctgaa ttgctctggg gggatatatag cgtcgacagt atcagtaaca tagagccatt 2220
caagtaattg gaaatcgta ggcgcaagaa caagcaatgt gtccagaagc ttgcaggcct 2280
ggagcaaaga atatggattg tacaactcct gctggtttcc agatgagata gctgaaatag 2340
cttcttgaag ctcaactgttt attaacggcc agaatgggct cagcgtgggt gttgtgctct 2400
tcagtatgag tgctcggagg accatgaaga tttccgctct tgtagcggaa gatggagatg 2460
atgaagcggg agtccaaga agatcctcca gcttctgcag tagcggcggc atctctgcga 2520
taaaatagtc ctcaactgta gataacacca aaagacttat ccgacgaaga tttagttggg 2580
ctttacgac agcatccaaa cgagctgcgg atgcaccaac gccgaacatt atgccagctg 2640
tgcccgccgg ggttaggcga gtcattatct cagacagtcg gtctttgtca accaaggccc 2700
attgccgcaa aagagtcac cagccgcctt ttaccaggtc gagttgcgac ccgaaaaacc 2760
ggggatcatt gaaagcatca gccacatcct tcttccaaac ctttgccact tgggggattt 2820
tcgagatatg ttgcatcaaa gccataaagc tgggtgtaag attattagga aagagtcggg 2880
cacgtatgaa cggcccgata atattggtag aaatatttga cacggccgta gtgattcgat 2940
ccatgtcccc tagtgtcatc gagaacgcag gcatggacgc aacaaggata cttaacatat 3000
catctggccc tatgcgtggt atcgatgaac tatcatagtc taatgaggca cgacctagaa 3060
gcccttggtc ctgcgtaaag cccatgggtt tacttgtaaa gatggcgggt aggaggcgca 3120
gtatcacatc ctaggaaaca ttagttcgcg gttttatgct aataagaagg gagacttacc 3180
cccaactcct ttctcatccg acgatcttcg ccaaagttcg tgttctcaag ttttacgccc 3240

aagatggcag caaactcaac tagccgcggg aggatctgcc tgtgagggaagggttgctt 3300
agtacatctc gcaggaaagt cgtgcagtct atccatatct catccaggac atcatcgtca 3360
agagacctag cgtaagttac caggaatccc gctaactcag tctctgttaa ggccgttgctc 3420
atcgtcgtact tgcggctggg gtcaagcgcg gcaggatttg ttcgtgtata gatagcattg 3480
aagatagctg gaatggcaat ctccggacga gaccgcgtcca aagtgtgaag gagattaaag 3540
atcagaggcg atgtatccct gtcagacttg atccacatat ccaccattgt ctctagacac 3600
tccaatgctt cggcagtgaa caaatgctcg agaatccggc gagatctgtt ccgcattcgc 3660
agtgatgtat attggaacga cgctattgac tccgtgtctt ggggaaggct acttcgttcc 3720
gcagcacccc acgaccaaata agaaaaacag agacgtacgg cgtcttgaaa cgacaataga 3780
acagtaagtc tgttgttcat cgccgcagag cgtggatggg tagaatcaga cggaagaca 3840
cccgaacca tattcccgaa gaagccatgg gtttgatccg gactcttggc tgccggcgca 3900
tttacttctt ccatgagaag gcgctcatga gcagctgcaa tacacgtctc aaaaccagtc 3960
aggagggata tagtggctctg ctccggacga tctttgggccc aaccttctgt cttttcgaat 4020
gcggactgga gattcgtgta tgactgtcta atctcccttc ccaggcaatc caccaaagtc 4080
agcagaatth ggaagatgca cgtagaatag attgggagta tttcaciaag cagcatgac 4140
catttgctga ttatcgccct ggatcttgga gagctgaggg ctttgagcag gcaatccaac 4200
aggcgttgag gaggtcagg ggacggcagc agcacggatg atttctctgg cttgtcgctt 4260
gtgaaggaga gaagagaggg actgggtcaat ttctcgcgag agccccctct ttgggtgctta 4320
ggttttgtag gaggcggcgg taaataagct tgggaaaagc gagccttag cacagcgagg 4380
agcgtatcga tcaatgccgc ttggattgca atatctccac cctcgtcaag catagaataa 4440
agccggctga caagaagtga gtcaattccg gattccacta gctcctcgac acctgggtccc 4500
agcagaagtt ggccgatgac taggagagat atctgctgca atttgacctc ctctgcgttc 4560
gcagttgcag taccagactt gtagccactc acaatcttca gcgaagcctg aaaaacaact 4620
gagtggaggg ttggggcttc ggcattgtct gtaacaaaat ggtcagaagg gagaacttaa 4680
ggttattgaa ttactaacc ctctgaagca gaagcgtcgt gccgcctgct gttatgcgcc 4740
atcgtttgcg taagaagaga aaccatccg ttatgattaa gtgccccag aacgttggtg 4800
atcgtctcga aaaggtagtt gcaactccgca tagtcgtctg gggatacaac agtatttct 4860

tcaaaagtcc ctaattgatt tccccggtgc aagacaccct ccagctttga aataattata 4920
cgaaaaaccc tagatcaagt tagaggaaat ttagcaacta ccactttggt ggagtggtaa 4980
actcacttcg ctaccgacgg aagatcctgg agccacaact gaaccacctg ggctggttga 5040
gttgaccctt gggacaataa gtctaagaca gtgaaaagcg gccgttcaag cattgaagaa 5100
tgataagagg cttgtgattg agccgagtcc tgcaggttct tcggaggtag ttcatatgta 5160
ccatgggtggc tgtgattcca gagaatgaag tatctaccag cctcctcctc agaagagagt 5220
tggtatgagc ctggcgcagg tggagtaaac attaaggacg tgatggtcga ttcaactagg 5280
tggtccgacc acgaaactga gtgcagattc cataaacagc gaacggcttc cacatgaaac 5340
ttaggactca gtggtgagag gaattgccac agctgtctga cgagtgggtg gattaagtca 5400
gagacctcct cataagtgat atagtagccc aatttgtgga tacaatagag acttgttatc 5460
gttgctgaca tagaagagag atgtgagaat gaagctgttg ataactcgac tgtggacgct 5520
tgaatatgtt tgccgatggc tacatagagc cttttgtccc gcaagatgcg cgatctagga 5580
agctttttca ataccacgat cagaagattg agtctctctg gtattgattt agcgtcattg 5640
cacgcattga cagcggatat ggctgttca taaacattct tgattatcaa atccgccagg 5700
tctgtaggcg gaaagggagg cggctgcagg tcgagactgt ttctgcttcg atcatagaac 5760
tgatgtattt gtctcaagat cgcagaacct ggacgggtcaa gcagcatcga cggttcattt 5820
actgagttct tggaatcaga cttccggaga aaagcgcgat caatcaataa ccctgtcaac 5880
aaagtcacca cttttgataa tccgttagat acagcttgta attgatcgtg ggctaccgaa 5940
gtagtagctt ccgaggatag ctgcgtcatc ttgatcaggg cggctaaggc cagtaacggg 6000
gcatgattca gaaccatgtc ttcttcgcgg acattaaaat gatccaggat aaagtgggcc 6060
aagttcaagt tgtccagtat ccggggagca tcgttagcca gactcttcgc gtcccaatct 6120
atcaaattga ggagctcgga gaatatcatg ccactttcca ctccatcgaa aaaagatgtg 6180
gcacttcgaa aaacctcatc aaaatgggcc ttaggcgctg ccaacttata agccttaacg 6240
ctccgcatga acggcagaaa gacagcaggt actacatgcc cgccaacttc ccacctgtcc 6300
atgagcgaaa gtgttatcct gaaaggcttt gccttctctg aaggaggttc ggtgtctctt 6360
ttaagcaatt gcagtaggcc actcgccaag ggttgcaaac cgaaccgact gaagtactgc 6420
gattgcgaga gctcttcact ttcagcggcg gtctttgaag ctgtgctgga aattgagggg 6480

cgagcctcaa aagaggcgcg gtcaccacaca gggtcagggc ccagaagcca agcccaaagc 6540
 cttctattca aactcatgtc tcgacgagaa acaacacctg ctgccgcaac aatgagtcgt 6600
 tgaaggatcat ccttggttat ccgggtttgc agaataggcg aactcaaggg gagatgcgtt 6660
 acaagaaggt caaggaagtt ccgctgaacc aagacttgct catccgtaag acctgttgcg 6720
 aagcatcgaa tcaacaatcc gggttcgggt agaatgaccg agtccacagc cacctgcatt 6780
 tcaaggggca tggccgtagc gtctacttcc tcatgcctac tcggctctcg gtctgtgacg 6840
 cccagcttag gaagataacg gttcagatag gccagaattc ctagccgccg gctagggcta 6900
 gtaattgagg caaggaaaaa gcattgccag aaatattggc cgcttgaatt cgtctccgcc 6960
 cctggccggt gtgtatccat tcgactagct atttcacgaa gggattgag caaacgaagt 7020
 gtagagtcaa aatcgtcgct cgtttctct tccagtcgg gcaatagcga taagatgatc 7080
 gccttcaacg cgggtcggat tgcccatggt tccaggtcgc aaacgtatgt ttctacaaa 7140
 gacaaaaata atgggcgaac agtaagagag gcgaatgtca gtgtcgggtc aataccaggg 7200
 tagtaciaag gaaggatcat cgaaagacct tccggtttga ttaggttgaa gatgtaagta 7260
 tagacttcca gcgccttctg gtgaaccct gatggcaagg aaggattcat ggactgagat 7320
 agccgcttgg cgacaagaac cttgtgagga accacaggct gatctggagg atgtgtctga 7380
 agggctttca gaagcctgct gaggaaggag atataatccg cccattctg cagagtgtta 7440
 tcgaagagcg acagggcacg ttcaacgctg gaagcatatc ggcggtaatt cttgtcctt 7500
 ttcagggacc ctgagcagac catatatgtt agactctgct ctggcaatgg atatgaattg 7560
 tactatggat ttcagacctt ctttcccccg tagccgggag cgcgttagag agctgtcggg 7620
 gcttgccggg gaattggacc ttgggaacga gctcggatca aggctcatgg tgcaattgtt 7680
 gggtgattag acacagaaac tggtagatct agctgcatca tagttcaagc atctagacca 7740
 aggagagaga gagacaccac tcaagaaacc agcatgcaa gttgaaggca ggtgaagcca 7800
 cgcagccggg tcaggcagac gtaagtacgc ttgtttgtcc gctttcgca gcttctccgc 7860
 cccaactaaa cggagctgat caaccacact tcctgcgagg aacctgctgt tcatccagta 7920
 acacgatggg cgattcatcc gaatttatca tcgggtgtca ttgcatactt acagctagga 7980
 tgttacactg agttgatcaa cctccgcatt ttcgccagtt ccaccttcgg aggagcgtcc 8040
 ccaatgcgct cggatggcta gcatggacac gaaagacagc aattcctcgc aagccttggc 8100

tattgatggg ggcgcgcaga cccgaccaac tgatgatcat gcctccttga caaagcgact 8160
 cactcaacct cgatctgata gcagccagag cccgaaggc cgtccaccgc cgttaccccc 8220
 gcgtccggag aactgatcc tgtagaaga tggaggggca gctcctggga caccaagacc 8280
 gaacgtttca gcagtgcata caggcctgca atcaagggt actacggccg tatcactggc 8340
 tgagatatcc caaatgata gaggaagga tgctttggct gttcgctctt ttcccggtag 8400
 tggtcgtgcy aaagccagtc tcagccatct agcaacgccg aaggacggaa gcgatgctgg 8460
 cgacagcgca agcgttacaa gttatgtccc ttattccgag tcgggagatg tggaaaatat 8520
 ctttggctct ctgcgctcct ccgaagtggg aatagctcaa gaggaagta ccggcttgat 8580
 gcaatttccc gagttccaag ccagccgatg tggaggacga cttcgcgagt gaactcgagc 8640
 cggtcggcga gatcggtgag ggagggtaga acaaaggta ttgacctgct tacggttcta 8700
 ccaccgctga gactgaccaa ttgatagata tagtacttga gaaatggaag gcgaagcgga 8760
 agcactacat aatactttcc gctgctggaa agccgatctg gacaaggcat ggcgacggcg 8820
 gtctcatctc cacatatgtc ggcatatcc aaacaatcat ttcacctaag gaagactcca 8880
 atgaccggtt gaacggcttc acagctggcg acaccaagtt tacagtcggt gcgaaaggcc 8940
 ctttatactt ggttgccatt agtcgaattc ttgaaagtga taccagctc aagcttcagc 9000
 tcgaggcggt gtatatgcaa atcctatcca ccttgacgct tccagcggtg acccatctat 9060
 tctccgtgcy gccatcgacc gatctgaagc gtcccctaca aggtccgag accctacttt 9120
 caacattagc agacagcttc actaagggt cgccatctac attgctttct gccctggagt 9180
 gcctgaaaat ccgcaaatcg caccgtcaaa ccatcaaaa cactctctta aaaacgaagg 9240
 tcagcaaaact gctatacggc ctggttgctg caggcggtcg tctcgtcagc gtcgtcaggc 9300
 caaagaagca ctgctgcac cccggcgatc tccagctttt attcaatatg at 9352

<210> 3610
 <211> 5951
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3610

ggggcacaga cgatgatata tacaactttg atgaaactgg ctttgctatg gtttctaatt 60
 gcaacaacaa aagtggatc tcgagcagaa atgccaggca aaccatggct tatacagccg 120

ggggattgcg agtaggttac caccattgaa tgcattcaatt caactggatg gtcagttcca 180
 tcaaccatta tctttaaggg aaagcgctat agagagggat ggtttgagga actctctatt 240
 ccacatgcct ggaggattga ggtagtgat aatagataga ctacagatat aattgggctt 300
 cgctggcttc aaaaatgctt tattccagct atacagaggc ggcgaagggg ggagtatata 360
 ctctttattc tggacggcca tggaagccac ttgaccccg cctttgacac tacatgcaag 420
 gataataaca ttatccccgt ctgcatgcct cctcattcat ctcacctcct gcaacccctg 480
 gatgtgggct gttttggccc cttgaagagg gcatacagat ccctgattga gcagaaggca 540
 cgcctaggat acaaccatgt tgacaagctt gattttttga aggcttattc agaagcctat 600
 aagaaagtct ttacaataga gaacattcaa agcggattca gggcaactgg gttacatcct 660
 ttctcacctg ctgcagtact ggataagctg cagttaagac cattgactcc tacaccccc 720
 cccaagcag aggtactgct tcaatcccct cctctcaact ctgtacgcct catacagtcc 780
 gtcaggtgta tcgaaaagct tcatcagtca aaaagcttct aaaagagggc tctaggagtc 840
 cttcaagccc ctcaaaacag gcgctggatg aatttgtaaa gggctgtgag gtggctattt 900
 acaatgctgg gttgctggca caggaaaaca aggatctccg tttatttggtg gcagataaca 960
 tggcaaaaaa gagtcgttct aggcgtctaa tgactcctac agatggactc tcatttaaag 1020
 aagccagga ccttatttcg ttgagaaata atgaattaca agctgggtggg gggggttcaa 1080
 gctccagtac ccttccaact tcggagagac ttaggcgcgc cccccaagg tgtacaaatt 1140
 gcggagtaca aggccataaa agaacaagct gtaagggtcc gaatcatcct tagtttattt 1200
 agtttgata agaattgatt gagttattga aatcgaaagt ttgtatagca gtggggtgga 1260
 tgagaaaact acctccgcc cgggacgcac ctaccgccg ggatttacgt taacggcgta 1320
 cggattagaa gggcggaatt actttcctcg cactaaaatg ccaattgcta cactcgccct 1380
 gcaggtaagg ctggaaccaa atctctcaat tactatctat ggatgattaa tcttttacat 1440
 attctgacat tattattatt catggtgcgt agttgttatt tgtgttctct cgcgccttga 1500
 agtttctcct ggctttcata gcctcgcgtg ctgccagcct caggaccatg atctcaatct 1560
 gcaccagatg actcgggtact catgggttga aataccgtta actggttcaa tattcccttc 1620
 catatgacaa gggccgaaga atgagctgtt agcttgagtc ctctatgccg agtggggttag 1680
 agagactgcg accagggctg aggaccgctc ggcaaagcct tggtgctatg ataagttaaa 1740

ttccgcgactt gtctccttgc ttctgtgaatg gcacatctgg aagattgttg cttgtgtgta 1800
 ggccttagct ctgttacctca aggagatagc taagtcaatc agccatcaga tgaaacaact 1860
 atacgtctgt tggtagtgcg agactgtagt cgtcactgtt gaagaggcaa atctctgaaa 1920
 ctttgaatga atcagacaat ggtcggcatt taagaaccaa gataagcttg agctgctttg 1980
 tgcctaggta ggaagggcat cgccgctcag catattagt attgcaactt tcgagtcctg 2040
 aagataccgc ttccggagtga tcccattatc aaagcaagga gtaccagaaa ggtgatagtt 2100
 atctctactg accgtgacca gtggagatct ttggaattct cagacggggc tgttcaagcc 2160
 ttagtcgtac ttgcccactc tggcctggcg caaaatatcg cctagacatg gcgtaaatag 2220
 cagacgaatg gctcttggct acaaccatc tgaaagcaga agatgattcg taagctatta 2280
 tggctacttt gctggaagaa agagcaatat aggggtccagg ctctgtataga tcatagttca 2340
 tcctctggaa atattttacg cctatcgaga tatacaaaaa catgaaaaag ctcttgggtat 2400
 taaaggagcc ccggttcag taatgaagaa attgatgcta tcggccatgc cccattgctg 2460
 aacagaaggc gacaatcacc ggtcattgca gagcttcaat cggtttcaca cagtcgaagt 2520
 ctgaatttgt ctacttctcc aagtaaagct ggagtgcatt gtgctcttct tgtttatgct 2580
 ggcagcttta cctgaaatct gtttagttat catacaaagt cacatccctt taggatcatc 2640
 tggaaagcac aacctttggc aagctagagg catcaatcag ccattttgaa gacgaatata 2700
 aatgtcaatg agttcataca gacacctaac tatatgcgag gtgaaaagac gaatacaatc 2760
 tcgaaggcct aagtactctg atatatttca ccacgcgcat agagccgtag aacatacagc 2820
 tggagcatat ggatggatac actgttagat gaaagtgggc tacttttact ccccttagag 2880
 acctaacgcc cgaatagcag gggctgagtc ttcattgcgt ttctagcagc aggtacttag 2940
 aaataagacg gggacctgac taccaagaat ggcgtcaaat gcgtgaacta cggatccgac 3000
 cgcaggcgac gcaaaagccg cgctatacga tatcgaagca gtaattctat atccttctat 3060
 aatagctact aactatgcgc tateccaacc atcatgaagc cttttcctat actccaccac 3120
 catctccgca gtgacattgc ttctccaca aataacaata actatccggc tgtccggcgt 3180
 cagatcaggc atgtaatccc tcagcttcac cgagccacca acctctacac tgataccaca 3240
 agccaattca acttgcaacc ggtgttcac cgcgagccga atcacgcctt gggcagcttc 3300
 cgcatcagag ccgacaacgc tgacgacatc tactctggcg ggcgggcact gcgcgttctt 3360

cagagtctgc ggcgccactt gaagtgctcc tagcgatgta gcgagggacg taatagccgg 3420
gagcggctgc aatgtacctt ttcgaaggga caaagcgagg gaatcagttc cttcagtttc 3480
gacggctaaa acgcggacct tgccccagg agcatcgcca tttttagttg ccagatgtcg 3540
accagcccc tcaaccacac cattaagag gccacctcca ccaacgctac aaatcacagc 3600
atctgcggga aaagaacctt tcgaaacatc cctaggcggc atttgctgtg cgatctcatc 3660
aatcatagtc ccgacacctt tccagatctg cggatgatca aacggtggaa cgtagatatt 3720
cctctttgtc gcggcatcgc tccttgggtcc tgattctcaa taaatgtctc ccgaagatac 3780
gtatcggcct caaaccaact gtcccatgt tggatcacat cagtggcacc ggcctccgc 3840
agctttgtga tcatcatagg tttcgtcgag tacggcacga caactgtaca acggcagccg 3900
agatcacgcg ccgcgataac ggcagccaga ccggcgtttc cgccagagga gctaaagaag 3960
tgaggttctt tgccctctgtt ggctgggtct tgaagggcat tgcagatgag gtttccaatt 4020
cctctggatt atgggttagt ataaactcgg cggtaggacag gctctttaac ctacctagat 4080
ttgaaagagc cagaaggctg aaggaggtct agtttgagga atactctgct gtttatgcta 4140
ttagtaagaa tgcagagtgc taggagagtt ggtgcttacc atccagccgt ctttgataag 4200
gaagcagatt caatcagggg tgtttcgatc cagggtattc tcttcacgaa cgccattctg 4260
attagttgct ctatgcttaa ggaagattct tctgcgacag tgtcttttgc ggtttataag 4320
gtgtcatata tgtttaggta gcagtagttg gaatggatc atgtttggag tggagcgcgc 4380
cctgcgacaa cttgagctac tctgtaaagc tgcgatggtg ccctccagct gccaaatgat 4440
agggcggaca acccaactg cccctattat tatattttta agcccctctg accatggcca 4500
tggtctctt ttaatgactt tggcagataa cagccacagc ccattggtaa cagaaaagca 4560
atggtctatg ctttaaaagt aggagtcacg tgaactgtca gatgtgcgtg cgtcatttgg 4620
tcaagccatc ctccataacc cgagttcgag cagcagagtt actcgcccc gcaaaatggc 4680
ttttaaacct ccactctcg tgctgaaatc catactattc cgcaattgcg gccagtgcac 4740
ccgcaaccgc tatctccggc cgaccgcaac gtctcgatat ctttctacaa gctctccgct 4800
ccgcaataac cccctccgcg cacgcgcgaa tgcaaacctg cgtgaagagg atgtcgctaa 4860
gtaccgcccg tcgatgattg tatccggcgc cgggatattg gcctgtggga tggcaatgta 4920
cggcgtgatc aagctcgact tgttcgggct agagctgcaa caacaacaga agggccagga 4980

ggcggcagag aagaaaaaga ataatgggac gatgagaatg gacgggtccc atgggtttac 5040
 gagtagtcct tctgttatcc ggatccaggg ccaggatggg gtagaacagg tcacgactgg 5100
 gacaagctcg gtgccgtatt tcccgtctac tattagactg cccaagtatg aaggggatgg 5160
 aagttcggcg gcatccaagc tcgcgccctt ggacgaactt actggcaatg gggaagatga 5220
 agaggaatac cagctactag gggtgggtgt ccgcaccgtt tcgtttttga agatccaggt 5280
 gtacgttggt ggactgtacg tggctaagtc ggacatttcg gaactacagc agcgccctgt 5340
 ccatatggct gtcaccctc cgagcgatca ggaggttatc acaaatcagg taggcgccac 5400
 ttccgtaca tcattagtgt ctaccgagcg ccagcgggtt aaggatctct tgcttgacgg 5460
 cgagaaaggt gaagatgcct ggaacgcgat actgaaggag gacgggtctc ggacggccat 5520
 ccggattgtt cctacacgga acacagactt tgcgcatctg cgcgacagct ggggtgcgcgg 5580
 tatcacaacg cgcgcgcaaa aggccaatgc cagggcgaaa gccgctgcta cggaagctgg 5640
 tgcgggcgct gttaatcctg atgaattcca ggacgatgtc tttggctccg cggatgaatga 5700
 cttcaaaacg ctgtttggtg gcggtcagcg caacgacgta cctaagggcc agacgctact 5760
 actgctgcgc aacagcccgc ggggagctgg atgcgctatt ccagcccgat gcgtcgaagc 5820
 cgtttcgatt tatgggcccgc gtctctgacg agcggatcag taggttggtg tggttgatat 5880
 acctcggtgg aaagaatgtg tccagtgagg aggcgcgacg gaatattgtt gatggcatta 5940
 tgggcatagt t 5951

<210> 3611
 <211> 2192
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3611

aggcgtttga cactcgcaag tttccggaag ccgatcacgt cgacgactgt gactgtgtcg 60
 aggttacagg taaccggcat aaccgagctg gcgaccgata gccaaagtatc gcaggacggg 120
 atcgatggga cccttggtgt cagctgcaag agcggcagcc ttgagatgtt caatgaactt 180
 tccaatcctc agaatctttc gtgttggtcc gaactgcttc ttgactgcat tgtacggggc 240
 aatcgcggtt tgcggtggtt tgggtgcggtc cagataccag gcatagaagc gcgagaagta 300
 ttgaagggtg cgaagaagct tgtcacgacc gactattgaa ccacattaga atccaggtat 360

agtttgacgt aatagcctct tcgcgcttct ttttaagctcg gcttgctaac ccgaacttgg 420
 agcagcgaga tggataaatt attaagaact tcttcacgta cctggttag ccacaaagcg 480
 cagatagtgc gccaaaggcaa ggtgataaac cagagcgttt gcaaccattt tcgctatatg 540
 tctactggtcg cgataacctc tgatccgctcg gcaatgagtt tgattccgat taccagggga 600
 aagaggggtgc agattaacag gccagctgta aaagatagat agagacagtg tagaggcttg 660
 gtgagatggc cgctccacaa agaattaatg tagtgatgag atggagaaaag acggggggagg 720
 ggaagggaaa tgggtcggta attgaaggcg ccggggattg cggctgttgg ctttgggacg 780
 agcgtcccggt cggcccatga acctcggtc agcacaattc cgggaatttc ccccgtagt 840
 attccagtct actttatact acgcagtgtg caaagtacgc gagcattcgc tgctttgcca 900
 tttcgcttgc tttgctctgg acctatcttt gttacaggat tatgtccgca ataaagttgg 960
 accaagggta tgatcaaagt gtacttcgga tagtattaga gactagtggg cggtaaaggg 1020
 ctatcgagcc ccttcagaaa tcgggttatg aatcaaagt agggggtagc agaggcatgt 1080
 cacagaacag tggctcgtct attccattag agatcgtagc tgggggtcgc tgccagggtta 1140
 tctactattc gcagtcataa ctcggtacct ggtaaaggcc aagaggcttg agtctgcaaa 1200
 tcgaatgac tggccgtaag aatgtcagtt ccagagacac atcttagtta tgtcaacaat 1260
 ctagtcttgg tcataaggga ggagctgac gctggcgagt ccaaagtact aggatccttg 1320
 aagggttagg tcggaacgga agaacctttc accagctgag cttgtgtcag ctaccagact 1380
 gacgaagcga cgtgatctgc ctcaacatca tctcatgcac gcggttctt gacccattc 1440
 ggatttccta ccaccttcac cccactcact attgacatac aatcagttga tttgatatct 1500
 tgagttttcc aattctcctt cgccgacatg gggtcgac ctcagtatat caagttcccc 1560
 gacctctctc tcgccaaca tgtcttcaac ctttcgaatc ctgcatgccc ccagacgctg 1620
 cggcaatctt ctcagaagaa gcttcaagaa gcaataactg agaagaaaat ggcccccttc 1680
 taccgacacc ttgccccccc cgtcgaaggc attctgaacc actcgagtga gggcgctcc 1740
 cagccaccgt catcaagtgc tgtcaaggcg ctcagcactc tagcatcgcg gagattgtcg 1800
 cagaaaatag attttccctg ggatgaagct ctgtatcaat cactcgttga agacaatcgg 1860
 aaggagttag cggagttcca gaaggaagaa gacgaagcgg aggaagctgc cggtgacacc 1920
 gaggtgcagg ccgcgcgagg gaaacgtgcg gagttctggg cgcgggtagg agataagggtg 1980

cgtactgaga ataccatgct tatttaccat ctcttgcgga tgtgccgcgc catttacagg 2040
 ctgtatatatt atactcactc atccggtagg acaaagcgat tgagtccacg aaacgctcct 2100
 agagaagacg acgttcctgg gatcaagatc gatctagtgc tcgcatgat tcgaattgga 2160
 ctcttcttcg gtgacacttt atacgtgaag aa 2192

<210> 3612
 <211> 1659
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3612

gggctgtagg gctgattact aagcccttat agtgggacga ctatttctag ctggcacagt 60
 gctatcgccc agccggtgac agcaccacct atccctgaaa ctatagtgtc ctctccagat 120
 tcatttgagg tattcgctat ggatagtgga tgagccggtg gatgagccaa aggtgagcgc 180
 ttactgccc ataaggaagc aggattccaa cgtttagcaat ccaccctccc ttctgcgac 240
 tgctacatcg ccttttacag aagggtactt actgctcgct ggcacagcgc ctttgccctac 300
 ccattgtgcc gtatactctc tttcagggtt cagtcgccat gaagaatggg ggaatggatg 360
 gtgagggatt tgttgccctag taactaagca ggactcaaca gctgtttccg tcaacactgt 420
 cctctcctcc tgtggtggcc tttttccttc gtcccttcgc ctccctatct gtcagttgct 480
 tccctcacca cgtgagttgc atccccagc ttcgattgat accttcctc catcttcac 540
 aatcaacacg ctgctgcgat gcctccactg gccctgttga tactgccagc tcgacacatc 600
 cagtcacggg agccgagcag gcttgaaaca aacggcctgc ccagggggct ttgagtgtaa 660
 gttcccagcg agaaccacac cagtcagctg ctacgcgtca cctgtgggta ggaaaatgac 720
 tcggcctcgg gcattttgtg ccatttccca tgtctgcgct gtgcaaagca gagctggatc 780
 ttgtgtccga gaccaggaca ggacgtagca tgctatttat agtttaattg atgctaagta 840
 cgcaatagta agcgggtgat ttctcgatat gactcagtaa atgatgagct tatcaatcag 900
 ccggtcaaag gagtataaga tctagccgta gtccgtgcac cgtactagaa gccgagatgc 960
 cggacttaat ctactaagac taacatgtcg agaccgtggc cgtaccattc atcctggaat 1020
 acggctcgat tttctcattg ggtctttgaa ggtatgtcca ctaactgctc gatcagctca 1080
 cgggtcccca gcgcgtccct cgtttcttct aacatcacgc atccgcctg tttctagtcc 1140

gttggtccct ctggaggacc catgtcagcc atgcgagcag acagtatctc ccgaccggac 1200
 agtagacaag tgtcctgtcc ttgatctaag agtctcggtg cagcattcaa gatcgccaga 1260
 tatcgcaatt agaaccgaaa gtcttcactt tcacgcattc ttgattgcaa atggcttatg 1320
 cataactaga gttgaggtac ctcgattga ccgaatggca gatgggggct gctgtctctc 1380
 tttgcagtat agtcgggctg tcaagaccga gccagacttc aagcgtttgc actgctccac 1440
 tgatactgcy agtttgcgcc agtcttacct gagcttagac agactcccca cgactcagac 1500
 gcagaagacy agtggcgccc cctcaatgcc ttaatgattt acacagtggc ccctgtctaa 1560
 ggactatggg cacaacaaat cttgactttc aaaatcaaag tatagactct ttcttattca 1620
 ctctgcccc a tcttaatctc cgacggcata ctctcaatc 1659

<210> 3613
 <211> 2373
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3613

gaataaccct actaaaggga tctcgcgctc actcagttgt caccatggca gacgcggtga 60
 ttgctggtca gcgcgtggag gccccgggtc catggaaggc gtaccttatg tgcgtgtacg 120
 cggccttcgg tggatatattc tgcggctacg actctggcta tattaatgga gttatgggca 180
 tggattatatt catccaagaa ttacaggaa aggtgcgtaa gatcccctgc ttctgtaggg 240
 ccaagaatca cacgttctcc tccatgtagg tcaaaagcga aactcccgcc gcgcagtttg 300
 tgatttcacg gtcgaataaa tcccttatca cctctatcct gtctgcgggg acgttctttg 360
 gcgctattat tgccggtgac ctggcagact ggtacggccg tcgcatcacg attatcaatg 420
 gctgcggagt ctttatggct ggtgtggctt ttcagattgc ctctaccacc gtgcccacgc 480
 ttgtcgtcgg ccgattgacg gcacgcgttg gtggcggatt tgtctctgcy aacatcattc 540
 tgaacatgtc tgagattttct ccttgaaagt tccctgggtc tatcggatcg ggctatcagt 600
 tttgcatcac cattggtttg atgctggcct cctgcgtgaa ctatgggacg gagaaccgga 660
 atgattcggg ctcataccgt atcccgattg cctccaact cctctgggcy atcattcttg 720
 ggataggtct gtctgtcctt ccagagtctc cccgttatta tgttcgaaa aacaatctgg 780
 ctgaagcagc caaaaccctc gctcgcgctc gaggccagcc cccggagtca gagtatatca 840

cgcaagagct ggcagaaatc gtggccaaca atgaatacga gatgcaggtt attccccagg 900
 gcggctatatt tgctacgtgg ttgaactgct tccgtggagg tctccgtct cctaacagca 960
 accttcgtcg tggtatcctt gggacctctc ttcagatgat gcaacagtga gtcgagaccc 1020
 aacctccttg agttctatca gtcacatcagat tggtgggtgct ctaacgcaat gcagatggac 1080
 tggagtgaac ttcgtcttct attttggtac tacgtttttc cagaacgtat gctaccctga 1140
 tacctcctgt gcggtgatgg tggctaattt tgattcagct cgggtaccatt gacgaccctt 1200
 tctcatcag catgatcacc acgattgtca atgtcttttc tactccgac tccttttaca 1260
 cgatggagaa gctcggtcgt cgccctctac tgctttgggg cgctctgggc atggtcgtct 1320
 gccaatat tgtggcgatc gctggaaccg tggatggaga caacagtaa accgtctcgg 1380
 cgcaaacttc gtttatctgc atttatatct gtaagtggta tacgcactat gaatcttgcg 1440
 tctggctgat catcattgca gttttctttg cttccacttg gggccctggc gcttgggtcg 1500
 ttattggcga gattttcccg ctgccattc gttctcgtgg cgttgcgcta tcaacagcct 1560
 ccaactggct ttggaactgc gtacgttata gtcggttgcc aggatcttgg gatttggcgc 1620
 taacactact atagattatt gcagttatca caccgtacat ggttgatata gacaagggga 1680
 acctcaagtc ccgagtgttc tttatctggg gatccctgtg tgctgcgca tttgtctatg 1740
 tctacttctt gattccccgag acaaaaggcc tcaccctcga acaagctgac aagatgatgg 1800
 acgagactcc tccttgacac tctgccaat ggaagcctca ctctaccctt gcaccgagat 1860
 ggtatgactg agaaaaatgc gagtacaacc gtggaaagcg ctgcctaagg aatacagcaa 1920
 ggatgtccct tccttgctcg ttcgattcag ttctgttttg gaaacatctt acatccgccc 1980
 cgagtacgca tttgcaggtt gggactagct ttcacagagg atcgtaatag ctatgggaaa 2040
 tagcaatgcc tacatttact cttcttctct ctccattgcc ccttaaatta atggagagcc 2100
 actttggaat tatcacacta ctgcatcatt caataatgga atgttaattt cccttgactc 2160
 ttgccgctgg aatacgccctt gctgtataat gaacgaacga acagtaattc ctggagatcc 2220
 tgtcagcgtt tctacaaact gcagcgtatt atattgtctc aaattggttt cacctagttg 2280
 gtaccgctt gatgggacct ttagggttcg agcacctact tgtattgaca gaacatgcat 2340
 gcggcatgca tagagtgtga tttatctata ttt 2373

<210> 3614
 <211> 12222
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 3614

cgatggctat ctggtaaatg aaggaccaag ttaaggaaag aaaatcaagt agaagaatac 60
 tctgaagtat caacaaacga acaagcctga agaacagaaa aggggaccgg gctgatcaaa 120
 gataaataaa ggcctcgggc tctcgataag tcatcaactg ggagtcgaga gttagatcga 180
 ctagcgctgt aactccgaac gagtggcgtc gggactgggg agtgcgtaat tgtatgaaaa 240
 taaattgaca ttgaaagtca aaaaaccgca gatgaagcca taaactgggt aaaggagcca 300
 atccctgtgg cgaggttcct gggatcccaa agtctggatt tgcataactg ggggtgcgca 360
 gtacggaggg cttgacctca ttgacaatc gcaatatcat gtaacaagct gccattacg 420
 ccgaaacatc ccctgccgct gcccaccatc gtcagtgcgt tccgcattct tgtttttgcc 480
 gtccattctg actctggcct attcgagccc cgtagacat actgcaggaa aaggttgtta 540
 acagcgaggc ttacaccaca gcttggtgag aacaacaggc agtgtaaggc ttcgtaacaa 600
 aacaggattg tcaggggatc tcatccagtg gttggatgta catgacagcc gagaagggt 660
 aagggccggt cataactctg aagagcggtg cgcgagccca ctcgccgaa acgctgtgat 720
 gtgaatggcc tcaggcgttg atggatcatg agaaattcgg aacgatgggg gaatgccaa 780
 acccccatag cggacctaga gagatcggcc gcgtaggcag tggctcgcaa ttgtgattct 840
 ggaatctccc cagcctgcca atgtgtccac cgtcattctca actgacgct acactctccg 900
 taagccattt agctttgcaa aaaaaagact ccatgcaccg tcaagcactg aaacacggct 960
 ctccacaaga caacgaaaaa ctcgatatctg atcctcgctc atcagaagat cacttcgctt 1020
 tcttcaccaa atccgtcaca gaaccgtgag aagaaagtat ctactccgg ctgtcgctat 1080
 gtcaaatac aattgatcaa cccgagtggg tcctgtttgc ttgttatttt caagccttga 1140
 ccatatcgat ctcaaaaaaa gcagcagcac gcgacggcga caaaggaag tgggtggttg 1200
 aacagccgga cgcattgtct cagattcgcc acctatcatt gtattccgta gaagaaaacg 1260
 tgctggcggg ctagtgaggc tgttttctact ctcaatcttc gccaaaacc gcaattcatc 1320
 gtcgggaacg tttttttgac accttttgc gaaccactag tattgagata ccaggagtag 1380

ccccgctgct caaaccttgg aactgaaccg ccttcagggg taatatatct caagggtcag 1440
ggcagagttg ggtgtaatct ccgccggcag tatactccgt atgattgatg gaaaagctca 1500
ggatttcgaa atggctgcat cgaaggattc gtaacgctaa agccaagagg tcaattcatt 1560
tttcgtcccc ggctcgcctt gtcccagcga tgctgatacg aggtaaatga aggtatcatc 1620
gacagtggta aactcaatga gacgggtcgg ttagataagg atcaccgatg gatcgaatcg 1680
gtttctcggt ttttttgtag cgtaggcgat agctttgatt gttgagtcct aaactcgggg 1740
aggttcttcc gtgtcatact cgtcgaggtc gccgccacg gcctggcata cagcgacgac 1800
tcagtgaggc atcttcaatc gatgccaggg tagctggaca tttggccaag agtggtccca 1860
cgttcctcgt agtgctggga gtaaccattc ttgcattgat ggattcagct gagtcagacc 1920
ttcaatttct ccgtctcagc tttgcggtgt tctggtagca gcctgatcgt tgagtggttg 1980
gtatgctgtc gtagacttgt atcaagcaga gcaataagac actggaagca atgcttcaag 2040
tgaatgcgag gaaagaataa taggggtcta cttgtgcgat gtgggtgcctt taaagtatcg 2100
atgccaaagt atgttgtcaa atcccacggc atctcgcaat tgtttctcgc gatcacctca 2160
cttnactaa atttactttg ggataagacg gccacttttc attcctgggt ccgccaaaca 2220
gagctacttt aacctcagct catgtcttga gtttaatttg caccatcgct cgttattgat 2280
gaaatattcg atctgccgag ggccccgtcc cgaccatagg gctgatatgg agaccctatt 2340
gagcttgtct gagacacggc aacaaattcg gctgttgggc tcaggcagca ctcaaaaggt 2400
ctcagaatat tggacgacgc ttttactaag gtaatcagta ccctgattta actgttttga 2460
catctgcatc tttaatcaag tatctacatg tgccttcaac atccatttaa ttatagaaaa 2520
gggtataaag atgataggtc atgccagacc ctattctggg cagcctggac acttgaaaaa 2580
aatcatataa cgaaaatcct gtaactccag tgatgaccat aatcagaggg aggtcactca 2640
tgcaaatccc atgtatgcag ccgttcactt atcacatgaa caataatcac tccagtttat 2700
ccagatgttc tagccttggt aaaacgactt gtttgctcgt ctcttctatc tccccggcaa 2760
ggaaaacttc gtccaggatc gcatatacct gtacaaacca cagagttagc gcattgtaca 2820
accgtcagcg gtgcgcgaag ttctaatecg ccattaccaa cctttagaa attgaaaacc 2880
aagtcagct cgcacacggt gccgaagaat tgatccagga cctcgacaaa gaaatgaatt 2940
gcctcgaggt atgctagttc attgtctgtg gcgtcgacgc acgcgacaaa gaagaggcct 3000

gcatatctcc ggtaaacgat cttegtgctt cgtttgaatt cgacaaagtt cgactgatac 3060
ttctgatccc gaggagccac caagcgatgg acctagtaca attacttctc cgcacataca 3120
gagaccgga cgggctgcaa ggggtcgcag aacgaacctc tcccttaagc ttcactttct 3180
cctcgtcctt caatcagaag togetattag gtcacgtcg acgcattgtt gaacttcgtg 3240
ggggtcttac actgtacggc gcataccact tcgcaagtcg ggtcttgccc ctggttattc 3300
ttgtaagctt ctgaacagtt cagcaagtaa gcgacagaga atcacttact gacggttctg 3360
aacaagtata aatgataaaa ccatcttgtc tgatggccc cggtgctccg tgcgagatcc 3420
acggacgtgg aatacagctc ggcgtcgaag ctggagctgt cagttcactc cgcacccatg 3480
ggggctgatt gcgcgatact gccgactgac accgccttta acgcttctgt aacctgccgt 3540
ctaagtgttg aagttctacg gattatthaa tattaatgca ggcacaggcc tcatgcgcat 3600
gtacagcaat tgtagcatga toctggagat aaaaaagagc tttttttaca ttacattgtg 3660
cccaacaaag taagcctatt taaaggtgac tggtaaaata aaaaatgggt taaatatagt 3720
ttgacgcagc gccaaaggacc gttaacgatg gatacgccga atcgccgatg agagatcaaa 3780
cgacgtctt cattccggct tccgcccaca gccagtcag cccgacagct ccataccgac 3840
gagggtcgac gccacagaac ggtacattta caccctcac tgggataata tgattgctca 3900
aggatcgcat tgggttatct gggcttttac cccctccga tcaactccctc cacttctatc 3960
aggtccagac tcattaccag cgttgacact agcaccgagg gccgtcgtcg ccttaccatg 4020
ccagtctaca tgctctacgg ctccgatgg ccccgagctg gttttaccgg aatccgggtc 4080
tacatcgtct tgcacaacct agaagacgct acggcggaat acatacaaag accgataacg 4140
aacaagtcgc tgctggactc atttaggaag acggagccgg atatcatgtc gaatcttccc 4200
gaactacgct tcattgaaca gtatgacccc gaggacgaaa gcgatgaggc agtcagcaag 4260
ccttatgctt atgttgctgc gaaaacgatc agtatacccg aggcagggtc tcctaataca 4320
gggagtcctt ggaataccga tatattccag gagaaccgc tggatccggc tagttcagaa 4380
gcgttgcca aattccggga taaatatgcg gctggggaga ggattgggtg gtggattgta 4440
tacaacgggg atccagagcg gtatthtct catgacgaag atgaggatgg tatgatggag 4500
gatgatggct acgatgacga tgacgacgag tatgaccgtg atgggtcgtc tagtaacaca 4560
ccgtcgacgc cgacagtaag tttgcatgtg tggtagttg atgatgcgtt gagtatgtac 4620

taatcgttgc	ggcttttact	ttgtatagat	acggcttccc	gagacattaa	cgcgattctt	4680
caacaaaacg	ttttcgtgat	tgctgtacga	gttatattac	gactgatgat	tttatttccc	4740
caaacattgg	gaatgatggg	tatattgatc	agcgggctta	tgggtgtctgt	gggagtctaa	4800
atctcgttat	gtgagcgggt	tacatgggtg	ggcattttgc	attatttcat	attatagcat	4860
cttgtttttc	gggtcaaaatt	agctggaacc	atatttacca	ttctgccaa	ctgcatcgaa	4920
cgtcgcctca	tctacggcga	atcttcgaat	atagtctttc	tccagatcat	gcgctcttcg	4980
tcctaagagg	accaaactgt	gcagtggccg	gcccattgtc	acttgagtca	gttcctgtag	5040
agttcctgca	acaagcttct	ggctttcagc	tccgacacga	gcggctccca	ctgcaaggct	5100
gtctgggccc	caaacaccct	cctgtcgttt	cttttcgggt	ttcaacattt	gggcggcgca	5160
ttgtgcgaca	gtcataaacc	tcggaggctc	ataaatcagg	cgacctctgg	ccatgttctc	5220
gagcgactgt	tccttgacct	tgatgtcgag	cagtacaaga	gtatggagac	caatctgcac	5280
gttctccttc	actcgatcat	aatacgagga	tggctttcac	gtctcagtga	aaaagaccat	5340
gctcactgtt	tgaccaaagt	tgtacagctg	gagacctgtg	cacccaatgc	cggacatgat	5400
agaggcattc	gggatgacct	tggattcgat	gccaattcg	cgcgcgcgga	ggacgaggtc	5460
tgtatgcgtc	gtcgccctaa	atgcgcggat	cgagttaata	tcgaaaacca	tgtccgggat	5520
atttaaagcg	tacccaaagg	gatctccgac	cacgaggaag	gctacgtcga	ccttgtctgc	5580
atttgcgagg	atgtcgtcac	taccggtctc	tacgagctcc	cggctctgctt	caataacagg	5640
acgtccatag	aatgcttcct	actgaagcga	ccaaacatta	gttaattgac	tggcaaagaa	5700
aatagcacac	atgctcaaga	atgggtattg	ctggtaggtc	tcactagttt	cgctttatca	5760
acaaggagaa	tggctgtgta	agcttcaagg	taaactcggt	cggccttttt	caccacctcg	5820
agaccgcgga	cagtgatgtc	cctttcatcg	gcgagaccga	gtcctacaag	atagagcata	5880
gtgctttttt	ctggtagata	actcagtcaa	tggtttggtg	taatcgaatt	ttgggtaccc	5940
caccatgtaa	attgaagcgc	tgggcggcgg	acggaggaac	aattgttcct	ggtagggcac	6000
cgcatggaga	ctgaccactt	ctttgatctt	aactatatca	ttactatgg	tttgattgga	6060
ttattacttc	cttttaattg	agaacattgt	gatatctgat	tatagttcat	tgtacaagtt	6120
accttgttag	accttgggtc	cagattcgca	atatgtcgtc	tgatcgtact	cctaagtacc	6180
ggcaggagat	ccagcaggta	agcaacatta	ttttgatgta	ttctgtgttg	tctcaatata	6240

ccctttggga atctggcaga ggtgggggtgg aagagctcta tttttattac gttgcttcgt 6300
 tgtatcttgc gattgttctc tctgctagag actcaagcaa ctcccttgtc ttggacctga 6360
 tacggatctc ctttctcctg cgcctagaca tcgtctgctc ccatatttgg aagcagaaat 6420
 ggtcttacaa atatacgtgt ctgggaattt ctctgatgcy tgtgggagag aatcagggat 6480
 tgagaccgtg ctgccttac gtgatggcag tagtgctctt ctgggagtct cgatctatgc 6540
 atcggggag agagcgaccc ttcaggttga ggctgtggat gaaactctgg aatcaaacga 6600
 gagctctttt gagagcaaga gaatgtttgc tgccaaaatg actaactttt ctgctagatg 6660
 atgtttgtat ctggagaaac tgctgagcct tcaattgaga ccaccacct tatagaagat 6720
 attgtgcgac agcaagtagt cgagcttggt agccactgct tctcacgga tcgtcggcgt 6780
 atactaacca atgcatgtat agcttgctcg cagtactgcc ttagctactc gccgtgggtg 6840
 cagatccata tctactgatg atttgatctt ttgattcgt cagcacaagg ctaaagtgtc 6900
 gcgtttgaag acatttctgt catggaaaga tgtccggaag aatgtgaaag actctgacga 6960
 caagggcggc gctgatgcgg ctgactttgc cggggccgat gaccctatgg ctggtggcgt 7020
 cgttgcaggt ccccaggatg ttgcatctaa gccaagaac aaaaaagcgc gtgttgggct 7080
 tgcttgggac gtcaatagct tctactcagt ccaagttcca gagagagatg acgaagaaga 7140
 tgaagaagag gaggagcaaa actatgctac cctccagcgt cttgccgctg cagacgagcg 7200
 gaccaaacac atgactagag aagaatacgt tttctgggcc gaatgccgcc aggcacgtt 7260
 cacataccgc aagagtaagc ggttcagaga atgggctggg ttgggattg ttaccgaatc 7320
 gaagcccaat gatgatatcg tcgatattct cggctttttg acctttgaga ttgtgcagac 7380
 tcttaccgaa gaagcgctca aggtcaagga acgcgaagac cgcgagaaaa accgccgtgg 7440
 aggagcagaa aacagcgag aagatacaaa gaaacgcaag cgcgagacgg ggctcttcga 7500
 tctcctgag gaggggcgta cgctgtgga gccgagacac attcgcgagg cgtaccgcaa 7560
 gctgcaagct actccgaaca agaacattgc gatgctcctt cataatggcc gtctgccagc 7620
 gcgaatgcct cttcgattgg taagtcgctt catcgacctc tgggtgctag ttgctaatac 7680
 ctctagatct aagtgtgatg gggagttcgt gttgactata tcatggacta tatcgtggat 7740
 tgcatgggag taaaccggag ttagcagaga taccacata atgattgctt gttaaaatgg 7800
 gcgcagaatt aaacagtttt tgatgggact gagcatttga gaataaatcc ttagcgatgt 7860

gagcagagag tagtcttgggt atcagcctat cattgaaacg catattgatc tttcatagtg 7920
ctattatttg gtaacatgaa aacaatcttg gcatatctac aaacccgatt tttcgctcat 7980
ggctctcgatt gattttttaag aattttctaag aaagcctgat actactagca tgcttgggtg 8040
atctccaaca gtgtcggttag taaacactgg acaccgaaca ccgaacaccg aactccgaag 8100
gatatcccg gactttcaac accagccatc tctcttcaac ttccgtttct ctcaatgtcc 8160
tagcacccaa gaattttcat tgagatgagc tcacgcgggc gaaatggcca ggctgcttcc 8220
tgcgagccgt gtcggatgga caaggtgcgc tgtgatcacc agctccctgt ctgtggcaga 8280
tgtcggaaac gcaatacaga gagccattgc tattaccatc cagccccct gacaaaagac 8340
cagacttacc cagctcttca actgggtaga ccacgcgtat cgcgctcagc aaggaaacct 8400
gctcgggaagg ctccccaaaa agcagcgtcg cctacgccat cgtcggtcga gattgctatc 8460
cggactccag aggcaaacca gtcccatccg ccaggctatt ttggcccaag cagtattgtg 8520
tctacactta ccgggagctt agagaatacg ctcacgcctt cggacgatga atatcaaggg 8580
gtgggaagta gacactctgt ttaccctcg tattgggtaa ccgagacaac aaagatgtta 8640
agtatactaa ccgaaggccc tacaattgag cgattagtgt gtgagttcta tgggtgtaact 8700
cacactgctg ttctgccaac tgccttcgtt ctcagcctca tgaacgaagt acgggaattt 8760
ataaaacaga gcgaaacgtc acaaactcta cacgaaaaga caatccaggt tctggagagc 8820
actgcgcaaa gaccacgagt tccttctgat ataatgggaa gagacttcca caagctgttt 8880
agcagcaacc ggatgcgcct ggaaattatt ggcgtagtgt atgccattgc tggacgggct 8940
agcttttttg gatttgtcga agacaagttc ccagcgtttg ctggcaatgc attcgagag 9000
cgtcttaa at tctctagaag gatgttgctg gcgagcgaaa cagctgtaca gatatgcagg 9060
atgctgaccc caacgaacga cttatcggct tggatgttgt atgaaaactg gctgctgtct 9120
tgcatgttcc atggcgactc cagtaggtcc agcaagttca attcatggct cagcacggta 9180
aagatcatga gtacgagaat cgctgacgct gttcactaca aagggtcccc aacctggaat 9240
cggcttggag agttgtccag ctgcattttc gagttgggtt tacatcgtga cagtcattgt 9300
cacggccaca agggagaaaa cattcctgtg ttcttgcgag aagtacggcg aagactgtat 9360
gccggcttat accacaatga taagaatata gcaacgtttt ttggacgccc accgcgcgta 9420
tcctggaggc attccgactg cggactccct ctagatatta gtgaggaagc cttgctaggt 9480

gatgagcaag acctggagcg ggccatggcg gagctagata gcgagggctg gagtgtcaat 9540
gctacctttc gtcgcgcctc ctgggtaccgg attcgatata ttgttagctc gtttcgagaa 9600
gagataacttg aattgtctct acggcctctt gaccatgaag ctgccagaag actaaggatga 9660
gcatcactac aaatcaattc acatcatctc tcacatccaa gactgtgact agacagattg 9720
ccactcgctg caccagacc tggaactcag caccagctca cttacgatat tcaatctgtg 9780
actggaacga caaccaccgc gtggccgttc gtattatgct actttccacc tacttaatat 9840
atctatataa tttctttctc atatataggc tacttgccca gcatgacccc tccgccgaga 9900
aagcattgct cgacgtgagt tcagagattc tgtccgttgt cctaaagata ggtaggcagc 9960
acgagcctac gatcgatata cggagtgatt tcaactctat cgtgagacat tcagtccact 10020
tcttcttttag tacgcctatt aacctgtggg atagattgtc ttatacggct tttccagcgc 10080
tggtaccctc atcaaagccc tccagacgca agcccgaact ggcaacccaa ttccctatac 10140
cggctctaga gcagagctga tccgcaacct cagcgttttt aacgcgcata tagaatcaat 10200
ggctcgacca ttgacatcaa accttaatta cgcgctgttt gagcgcgcga gcaagatgtt 10260
taccgatata cttgacgaga tcttggaata ttctttaccg gtctcatcag caacggccaa 10320
tgccgcagaa gtcgggatgg ttatgaatac tccagcggaa gaagatatga gtagttgggc 10380
tgctgatggg atggagttct tggatacttt ggactttaac gtggctcttg accagtgggt 10440
cttttagcgt tcttatgtc agacttgtgc ttcgtgctgg attagggtaa gacatctgga 10500
gctttctacc actataccgt gttatctacc tgtcgaatga gctcttactc gagcaactag 10560
tctttgatga agcgtgattt agaacacata gaaacaagta atgaaagact ttgcagaata 10620
gccatcttgg atatcgaagt gcagccgaaa aaagtctatg tcccatatt ttactctata 10680
atgaacctcc aagatgtatc ctaagtcggg aacctcattc tcggcactta cttccttgat 10740
gcaatctcat taccgttaag caatccaccg agaacatgtc tgatctcttc caagaacctc 10800
gtaacctcgt cttctgttcc aaccgtaatc ctcaaacagc cctcgcaacc caactccttt 10860
ccgcggaacc gcaactacaac gcctcgtttc tcagccatag cctcgtagct cgctagcgcg 10920
acgggggttg tgggcttcgc gccttgatcc gcgggcttat cgaggatctc gacaagaagg 10980
aaattcgact cagtaccacc gcggaacgtc caataccagg gatagagga agctccttga 11040
ggattcggtc gcgctgagca ataactttgg agcgatacga tcgcatgacc tcaaggttct 11100

tagggttccc aagagccgcc attgccagtg cgctagtagg actggaaatg ttataagggtg 11160
 cttttagact gtttaaaagg gtagcaatct caggacttgt gaatgcaacg cctaatecga 11220
 ttccagcaag gccgaatgcc ttgctgagtg tctgcataac gacaagggtt ggccactcag 11280
 ccacccattc tgcaagactg gatccctctg gggcgaaatc aatgtatgct tcgtcaagga 11340
 cgacaacgcc gttccacgtc ggggtgttcta gcactttctg gatgtcggac tttgagacaa 11400
 gagttgcagt gggattcccc ggcgagcaga tataaacaag tttgattgtg gggtcggcag 11460
 agagcgcggc gttgatcttt tcaggctgta gcgcgaatcc gttgtccgtg tctagcggga 11520
 cttgacaat ctcaacgtcg ttgacgtccg cgctgacgga gtacatgccg tatgtgggag 11580
 ggcaggtgag aattttgtct ttaccgggaa cgcagaaggc gcggagaagg gcgtcaatgg 11640
 cttcgtctga tccgactccg acgaagaggt tctcgggagt gatggctctg tctgtgtggg 11700
 tgtgggtgtt gcggatgttg cagaagagtt gcttgagcgg gtgctggtgg ctatttcaag 11760
 ccgttgtgat cagaaagggt agagttcaga gcttgagggg catagttcac gtacggatca 11820
 gggtatcggg tcaatcccaa gagatcaatc tctggctttg atgagccggg cgagtggcca 11880
 ttggccgctg actcttgaag ggcacctcca gagttcagtg caagaccggg tccataagca 11940
 ttctcgttcg cgtcaagtag tacatttgtc ccatcgtctt tgtagtcact ggtgcgattg 12000
 attagtttcg gcgccgattg cggagggagg gttaggggac gaacatactc tctagcgcaa 12060
 cggtacgggt gcaacttcag gatattcttg cgcgcgcat tggagagggtc gaaagccgta 12120
 gtccgtgaag ccatgttggt ttgaaattaa aaagtgaagg taataagttc cttttgtcct 12180
 ggaggagcgg aggaaaagga atctggcggg gaacgaggag tc 12222

<210> 3615
 <211> 1294
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3615

aagtttttgc cttaggccca accatcgcct ttaggcccac aatagaaagg ggggacaaaa 60
 aacacatccg ttttttaccg taaaagaact tgggtggaag aaaaaacggc aaaaagacag 120
 caccaggaat tgaaatccat taggcgggtt tcccaccttt ccaactaaag gccccctggg 180
 gaaaaaaaact tgggctgaaa atccggtgcc aaggatacga aacgtaagaa atttcaaggc 240

tggcctggta atggaaaaat tcctgaaact gtttgtgtgt taccgatcgc gaagcgattt 300
 aggccatagg ctaataatcg ccataccaaa cgccttttaa caggggtgtg ggtatagaaa 360
 tcttattttt aagaggggtct tgggactggt agtgcgcttg tttgcttggt ggggtgttaag 420
 ggtaaagcgt acgagcagaa tgcaagggcc tcgtctcgcg caaatgcgta ggccatccgg 480
 gtgtctgcga gcattgcaga gcatcctgtg aatagctggg cgaggacggc taacccccac 540
 ataatcatgc cgccagtttt tccgcctgcg ttgaggaaga tttgggcagc tggaagaccg 600
 gttggtgtgt ttagaatgcc gtcgtagtcg gtaagacaga aacataggga tatcgtcagg 660
 atccagccca tggcgccgga aactacgaca gcagattgga tggctatcgg gccgaggatg 720
 gcggcatcgt ggggtctcttc agacatgcta gataattggt agagatgtgt tagacggatt 780
 ggtggatagt tgaatacaga ctgacgtggc tccatcagag tcggtcatgg tccatgccac 840
 agctatgaag ccgaggagga aggcttagag cttggagccc cagccggagc cgtcgggtgac 900
 gtgagtgaac acccacatgg ccggttgctt gtctggagtg ttatataaaa gtgcgatgca 960
 gatgataacc gttgcggtga ctgagtgtgt gagatatgtg gattacacaa ctaaccaag 1020
 agacatacta ttaattggcg caaaccagat aaagatgcgg tgcaacaatt ttgttgtcat 1080
 cgagcagatt acaccaagga agatcagaag cgcgatcgac aagcgactg tatcccacgc 1140
 ggtccttgaa acagtcagta gctgcgacgc aagacatagt ttggcgactt acgggtgtgta 1200
 cgagtaactc ccatcgacta gcttggagtt catactaaca gcagcaagca gcactctggct 1260
 tactgtatac gcacgctaga aaccagcag tttg 1294

<210> 3616
 <211> 8358
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3616

cgcgatagc aactccaatc cagtggcgag gtgctcttac accttctctg atatttctct 60
 ccgtcaacaa tattttttcca taaatcaagc atgaccgtat atagtaccct ttcttcatct 120
 atgcaccctg cagaatccat ctcttggacc ctgagcttcc tgatcatgca ccaactgccgc 180
 cttgtcattc aggggttcgtt ccattggaat cggaagcagc cgatcattgc cagcttttcc 240
 ggatgatgaa acgacggaaa tgcttttcac tccaataaca ttattcgctc ctgcgccttc 300

atttaagatg gacgctcggc gcgccttttt ctgaccgcgc tcgcggctcc tcccgtgctg 360
 aatcgggatg gttggtctgg aggctgcatg cgattcgagg ggaaacatgg ggtgcgtttc 420
 ttggcctggg gaaacttctt caggaagctg tatcactcta atcattctat actcggtgta 480
 tacaggtgcc gagatgggtca acgctgctta ccgggtctgg gatcgtctat aaaaccctcc 540
 ggagagtcca ccaggaagag gaatgcgata cagtccaacg cactttcttg cagtctcttt 600
 gcgatctact acctcggttc atagtttctc agctgcacaa tgaggttcac ccctctcttc 660
 ctgctggccg ctgtggccat tgccctccct gcgcgggacc tcaacgcccg tcatgaattg 720
 acccgccgcc aggcctcaga aagctgcccg atcgggtact gcacacagaa cggtggcact 780
 accggtggtg cggccgggtga caccgtgacc gtgaccaatc tggccgacct gactgaagcc 840
 gccgagagcg atgggcccgt gacgatcatc gtgtctgggt ccatctcggg cagtgccaaag 900
 atccgcgtgg cctcagataa gacgatcttt ggagagtcgg gtagttgtac gtcttctctt 960
 tccaggcaaa aaggatagaa attagattcg tggacgtcgt tgacttgggg cgtagctatc 1020
 aaccggatcc ggattctaca ttccgcgcgt cagcaatgtc atcatgcgga acttgaatat 1080
 cagcaaggtc gacgcagaca acggcgatgc cattggcatt gatgcctcct ccaatgtctg 1140
 ggtcgatcat tgcgacctct ctggagacct cagcgggtggg aaggatgact tggacggact 1200
 ggtcgatatc agccatggcg cggaatggat caccgtctcg aacacttact tccacgacca 1260
 tgtccgtcta cccagcccct ttctggccca agactactaa caatgagcag tggaaagggt 1320
 cccttatcgg ccactccgac aacaatgaag acgaggacct aggccatctg cacgtcacct 1380
 acgctaacaa ctactggtac aacgtgtaca gccgtacacc cctgatccgg ttcgccacag 1440
 tgcacatcat caacaactat tgggacagcc tgatcgacac gggcgtgaac tgccgtatgg 1500
 atgcacaggt gctgatccag tcctccgcgt tccacaactg ccccgacaga gcgatcttct 1560
 tcgccgactc agactacacc gggatatgctg tcgtagacga tgttgacctg ggcggctcga 1620
 gtaactcggg gcccgaggga accctgacgc ctagctcctt gccttatgcg gccattactg 1680
 cgctgggatc tggccagggt gcaagcgtga ttccgggtac agccggacag aaattgtaag 1740
 tcattgagcg agcgcatagc gccatgcagg cttggatgga ccgtctgtgc tgggatgttc 1800
 atctcctatt aggtagttca tgctggaact tccagaccgg atggtccaac atcagcgacg 1860
 tttgtagtgc tttgagttga tcattttata tgaatcgtct gaatggacta tatcaatatg 1920

atatcgggta ctcgtagcaa cggttaactag cccagacacc ttgcggaactg accccgggctc 1980
 cggccactga gcttgtagcc accaggctcag aggctgggag tagtagtgct gactgcagca 2040
 caaatgttgc aatcagactt tattaccaag catccactat ctctcagact gcaaccttag 2100
 tttatgcttg tttcttgtag atcgggatgc tcttttgcaa tgccgtagaa taagtcaacg 2160
 gggacttggc catggaaata tagagcttgt ttgtccgacg agctgttatt cagaccatca 2220
 agacctagct tattatccgg tcctataaac tagcttgctg gcctgggtga gctgtttttc 2280
 gccgcgctgg aggagcggcc aacggaactt ctacagga gagagcagtt gtaatctatt 2340
 ccaattaagc catttcttat cgtttatttt tcttccctt tctcttgct ttagtaatct 2400
 gcttcataaa gccagctcg tcgacagtta atcgttccgg tcccggtagc gatgccagtg 2460
 atctagcaag atggacacgg aaagggcatg gcctatgtgg tcctcgaatc tgcaatttc 2520
 aaggctagac catgaaatgg tctcgctgac cggctccac attgtacctt gagactttat 2580
 gtacttcgct ctggtagccg ccgggaagca tatatgcaat gttgatatgg aaatgacatg 2640
 tgatgctcat tctgtacacc agttgtacag aataagactg ctggcttacg ccatgtgata 2700
 ttgtggcttg gccaatatct ccaaccctg agggctgac ccttcaatgt atcgtattaa 2760
 gagattgaag agggatatct tcatcaacaa gatagataat caaccgtcat atgggtgttg 2820
 atccttagta ggctatgttc gtgtagttga tccagtccta cttctgcctt tcccccttg 2880
 agcatatatg cgtaccacaa acaaaggat tagcggctgc ctgccgctgg tgacggattt 2940
 ttgctttcta gcctcgtagt gattaagaga tatcaagtgt gagactgcat ctcatgctt 3000
 tggctctcat ttatcccttt cgtctatata tcagtctatg tctgatattt catcaaacc 3060
 agacaaactc cctctttgcc agttgctgcc cgaaattatc gcggcataat aagtttgaag 3120
 atactgctga caaacccggg atgaaccctt tgggccaacc aaccctcgtc gcttgacaaa 3180
 agcacatgta tttacttttag ccatcatttg accaggctga cttggctcgt tacctaaatg 3240
 tctggattcg ccaggcggcg ccatgcctt tctcgaaat gcccttatac ctctacgacc 3300
 ccaggctcag ggcttgaga tcaagtccca ttgagctag cgaggtcacg ttaaaccaca 3360
 aaaggttcat gcggaagaaa tggttatgcc ctgagattat gtaatacatg gcgcttggac 3420
 caagccaggg cagccgctga cgtcattact gggctctcat ctaacaatcg cagtgaagg 3480
 gcgcccgtga gtttctcaa acctcttgct ctcatcttt gatcgcttca accctttgag 3540

catgacgtca gatttttcaag ggccaccacg aacacttgcc ccattgcccc tttcgcagta 3600
tcttgccag cctcgccctg ttccccggat ctcgaaacgg tcaaacgcat gcacggcatg 3660
caaaacgcga agaatcaaag taagcagaac gaaatttccct cccgccacac agaatggcca 3720
gtggttgaca tggtagctcc attttgtagt gtcgcgggtc caagccatgt gacaactgcg 3780
ctgcaaccaa tcgcacctgc gtattcttgg ttgagaatga ccgacgcaga aaaaatgcac 3840
tcagacgtgc agagcaagag ctcaatacgg tccagcagca tctagacagg atccttgagg 3900
tgttcaaggc aggcgacaag acgcagctcg actatctcct tgccactgcc gcggaatttc 3960
gcaccgcctc aaccttaggc cctgctttgc aggatggat gtttgaggc atcgatcagg 4020
tatgtagagc catcgctaga gctggagcgc tattgtcgtt ctgcagtc taatgccgtt 4080
tctagctctc ggacattccc ggcatcgatg gggagaggcg gacctctgaa aacacagggg 4140
aggacttcgc cactgacggg cacatggat gtcgaccatg tttcatgtt cgggtgttac 4200
tctttgcctt ctagtaaaga aatcaagttg atacggatct cctgattcaa aacagtctgc 4260
tcccggactg cccgagtcca gttggagcac gcctccttc tttccaacgc cttttttcat 4320
ccccgtgggg atcccaggtc aaggcgagtt cctgaccaag gatcccaacc gcgacgaagc 4380
cagtagagct acaggctaca ttggcagctc ctcgagatt gattggctgc aagagctagg 4440
taataaggtc aacaactcga ccaagcatac agggcaacaa tgctggcca atattgatga 4500
ttccgccgcg gcgatgaact accatttggg ctatactccg ctaccgaaa ctattcccac 4560
cgaccaaagg tcgttgccgc cgaagccatg ggcgaaaacc ctggtcggcc tttttttcga 4620
aacagtctat ccttcgtttc cagttgtcag taaatcgta tttattatcc aatttgaaca 4680
ggcttatacc ttctctgcgg ttcagccatc gcgaaaatgg cttgctgtcc tcaacctgat 4740
actggcgctg ggctccaggc actaccaaga aacagagccg gtctctggac gggacgtcga 4800
tgatcgctc tacatatcgc gggcacttgc tctagccagt actcctgcta cgcgtaaccag 4860
ctatgcaggc ttacagcagg tccaggttga agtcctgcta gcgatctact atctagcctc 4920
gggcatgtc aaccagtaag agtccccct ttctgtctt taatgaacgc taacgcctga 4980
cttgataga tcatggcaga ctaatggccg tgctgcccgc ttggctatct ctatgggcct 5040
gaatctctgg gcggacgggg accagataga ccccgatcg aaggagacgc gaacgcggat 5100
ccggtgggtct atcttcaccc tggagcatgc ctttcaggc atgactggc ggccgtcgtg 5160

catcgacagt caattcatgt ctgtgcgttt accgctgccg ttcgacgagg cccaattccà 5220
aaccacagga gtggaagaat tgctgaaagc atccgctgcg cgtgaacgca agctccagtg 5280
gactgtgcat gcgaccgacg ccgaactgga cgcgaggac cagtggttcg tgactattcg 5340
cccgcgccag tctctctact tcttccatct ggctgacctt tctgtcatca tgcaagcagc 5400
ctcaagagcc atttactggt taaccaccgc caatgacggg gccgagggca atattacttt 5460
ttatagggga aagctcaagt cgtggctgtc tagcctgcag ccagcattcg ctttcactac 5520
cgacagtgcc aacgctcgcc gccggagctc tgggtgagatg ccggtcttgg cgagccactg 5580
tcgcgaaaga accggtctcg ccttagccta ctatagttcc caggctgtat tgactcgttc 5640
atgtcttacc tatccggagg tgcagtttgg gacgagtgcc caaacttctc ggtctcgggtt 5700
cggagacgat acggccaaat cttgtgtcca tttcgtcttt gctcttgtct ctgttcttcc 5760
cgaccagcca gacatgaaat ggatctcgaa actgacttcg tgggtggtttt tattgcactc 5820
tatcatgcgc gcattgacgg tcttgcttat ccaactttca atcggccagg tgccggtgcg 5880
gagcatatca ggcgagcggg agggcatagc aagggaagga gagggtagcg atgcagttcg 5940
cgacgcaata aaaaagatcc ttctctggct acacagtatg gccaagcaag accctagctc 6000
gaagcgcgcg tttcatatcg gccagagaat tttcgcgcgc atcgcgcgca cgaacgggct 6060
tgatctgcaa ggcgtggcgt ccgtcttaat ggcgaaagaa gaggcttcaa accttgaaga 6120
tttggaaccg ggcagtttct atcccgagtc ctcgaagatg cagggtggatt ttgcggactg 6180
gggccccgac gttacggggg ccgagagcgg ctatgagcag gatcagggtc ctttcggtga 6240
cccagccttg ttgtcatttg aagagtacag gttctaagcg ggccgaagtt tcatggcgtc 6300
tgcccgtcgc ggctggacat actctctcct atgccttttc gtgggtagat cagatattga 6360
accccaccac tgctcaaaaa tttagggtta taagatgtat ttcaaagtcc agacgaacta 6420
gactgaatct tcgagcgaag accatgagag tcgccagggg tgaaataaat tctatctcat 6480
catatgatta atatatcgca atgttcagag cccaagcggc tgtaacatct gtaaccctt 6540
cctagtccga aaaaaccact ctaaacaatca gacataagtt aaaagctacg gagtattcta 6600
ccctgctcac tcccgggtaa gataaacagc tccgtcacca taccctga gcttctcctt 6660
caactctca accgcctcgg gtctgaacct gaagcgcgcc cagaaagcct ccgtgccata 6720
aaccgatact aaacagggtcc tcgagaacct cttcgcagcc gcaaccctta gaaggcggcc 6780

tattccctgc gcagcgagac cctgccccct cagtcccggc aggaccgcaa catcgtggat 6840
atagtactca cctgcatcag cggggatctc acctagcagg gtattcagtg ctggcggctg 6900
gtgatgtcgg attggatgcg agatggcgta gccgtgaagc tcgccagttt cgtaaagcag 6960
ggccagacac ccgtccgggt agagggcgac gcgctcagcg aagatgctag cacgttctgg 7020
taggtctggg tgaatggat ttgcgacgtg catgaggttg ttgatgtcgg atgcgggttag 7080
gttgcgccag actgctgctg gtgtgggggc catttccggc tgtaattgga gatacggctc 7140
gattgtggta gtctgcgaat gtaggtcagt aaatagtgcg aatgactgat tgtggtcaca 7200
gggaatctgc agtgtacttg cgagctttca ggtctgattg gagagccagg agctacctct 7260
ctagggcacg gaatgatagg cgaagaaagg tgcagcttcc gaggatccag gaaagaagaa 7320
gaggggcacg cagaaaagga tccgctaggg aaaagcgggg aaatacggca ctatttaa 7380
atacgagcga aacattaaag gagcatttgc tgctactcat cgacttattt cccaagctg 7440
cggaagcgtg tgatttctct tgtttataaa gacaaaccaa gacaagtgtc ctcaatgcat 7500
gaaaaaactc tataacgcca ttcagtatct aggattgaga tcaaattggc tcaaaatgaa 7560
tcacataggg ctcaacagt cggtggatg gcctcttcc agcacgggcc ataggaaggt 7620
atctcatgaa gctgagccag aagcctctat gccagggaga cggagaaata tatttggtac 7680
ctagacagtc caaattgaca gggtgattga cggtgagttt tcatttacca ttttgcggcc 7740
gtttccaaag aaggttctta ttgataagtc tcggtaacag cgcaatcctt ctgggttagac 7800
tatgaagacg ttcactcgca gagtgcccc cagtcagaca tacatggaca ctcagtcctg 7860
gcaccgggcc cgtctctaac tgcccagcaa agggtgacaa ttgattacga agaacatata 7920
atggatggta ggccgacaga ggattgacg cttatgcaa ccatgttagg gacgacgggtg 7980
cttggaactat ttaaagccgc cttctataat gatagctggc gcccgtgca gaaaagatcc 8040
atatggccat gccagattt gagatggcg acccaagagt cattaagatc aaggagaacc 8100
ggcattcaac tgcgagttct gattgagacc gggcgcttag ggctgccact caccactccc 8160
actgctatgg gcattcaatc ttctcataag ggggtaagat ctgaccggga cctgtcagta 8220
cccttgctgg ttggcgagca caccctgtc ctctccaaact gcccgccacg ggtgtagcct 8280
ccatcaggga cgccagctcc aagatcactt gggatccct gtcttctcac ggtcctgagc 8340
ctagaggaag tattattt 8358

<210> 3617
 <211> 1159
 <212> DNA
 <213> Aspergillus nidulans

<400> 3617

```

ttcttgtata ggtataccac tagaacggag tgatgttttg tcgtacattc tttctggact   60
tgagccatag tgctttttta atttgtcggc aacgttcggc atcatatgtt gtgtttgtgc  120
ttatggaatc ggctggcatg gatggggttag gctggggttag gttaggttgc atcatgcatg  180
cgcacccagt gtgcaagtac ttctgagctt caatagtctt gtatatgtct gtgggtacgg  240
taaagactta ggcggcacca gtagaactat agcatgacga gcctacttgg cttgatagtg  300
cattatcatt agcttgatat tcttcttcta catttctctt tcagtagtat agtcttggtc  360
ctagagggcc gacactctat ccggaatagg cgtaataaga tgtttgatgg agaattctag  420
acccgaagtc gagaggggtca tggatgggcc aagtatatct gccacggctt gggctaggac  480
agaagatgtc caaactgtta gtttcgcccc aacgagagct gaagacggca ttgtggcagg  540
ttcatcgagg tgaagaaatc atgaccggtt tggatgcaggc ctgatttaat cccaagagat  600
tctacagccg ggtcagcaag gcacaagacg cttatatggg ggaactaacg caagcataat  660
cccagcttca actgcaacag ccgcaaactg gacaatcggt ttcttgatct ctacgctttt  720
gttctttccc ggcttcaaca gcttgggaat aactgagacc tgtccgacgt acagaaacgt  780
tcccgccgtg aaagggggga gcatattgcc ccaggtaaga cttgacccga gcaggccaaa  840
accggccaag atgaagaccg tccgaatgtg gtggagccaa acctcctgct cttgacggaa  900
tgccattaag tcctagaagt tccatcgttg tcaactgccg ccatgcttgc ctggaaagcc  960
attgatgggg gccatcccca ctttgggggt ttggaaaggc gtcttctttt ccctaagggg 1020
aactccaaga gcaatggagt cttttattgc caaatcaaca atagaccctt ttgctggtaa 1080
ccttgtttcg aagatgtgtg accccccctt gtgttgtttt ggtcctgcct ttttttcggt 1140
aagttgtgcg ggccccctt                                     1159

```

<210> 3618
 <211> 1376
 <212> DNA
 <213> Aspergillus nidulans

<400> 3618

acctgaacga ccgctccggt gccagcaccg gcacagcact agaaacacct gctttaatcc 60
tggaacaatac gcatcgcccc cggtggcata attgacggga atgacagcgc cagacttctc 120
cagtcacacac tcacactcat tgacctattc atacaatata ctcaccgagt ctatttcctt 180
tttattctaa tcagcgcttc ccttgggaat aaagtcgagt cgagttcact tagctcgaga 240
ctcaaagctc aaggaagact acccgtgact ttctctttct gttctttcaa attccattct 300
gccccctatg attgggtctt ttccctatct tactgcgtct ctttgaattc accatttatg 360
tatacccatt tactctccaa gtataatatt accaatacca ggtctaattc cagtccaacc 420
tgggctctgtc tcggtagaaa caataaggag cgcattccca agctctccag atagttcttc 480
ccatctacgc tgggtatcga gctctgagcc ttgctgctta cttccatatt tcataatcac 540
agagagggcc tcgtcagatg gatatcatgc aatcagggtg ctaaggactg ctatatactt 600
cgcatatatg caaataactca ctcttgagg ccacaaacagg ttccattcac cctcgccata 660
ctctcccatg tcggcctata aagttacagc tgctcactc tcaaccgcat ccgccatctc 720
ccccaaagtc tcaaacttcc agtcaaagac attctctctc acattcccca taatagcacc 780
aggcctcaca atccagacac tcttaatccc aaccttcttc gccggttgat ggtcatggaa 840
ctggctctgc gccgtttgca gcaattgate cttctcaact ccaaacttct tctttacagc 900
cgacagcatg tactcgaagt tcttgagatc tggcttataa gatccgatat cctgcgccgt 960
gagaaccaga tcgaactcga acccttccag acttccggcg ttcgtcttcg caaaggactc 1020
cttgtctaca ttgctcaaaa caacgagctt gtatttcttc ttgaggcggc gtagtgccgc 1080
aacggtgtct gggaaggcgg gccagaagcc gattgactcg ccaaaggctt ttgattcctg 1140
ttccgttgga ggtggaaggt caagatctct gcagaggggt gcatgaatcg tagccaggac 1200
ctcgtggtac agcatagaag gtgtcttgga ctgctggtct ttctcgagga cgtggttagca 1260
tgaaggatct gtggccccgg ttatgtgcc aaggaagtta agagtgtgt cacccgagat 1320
gcgtctcgct gaccccatth gccattaaac acgcaccggt gggtgacaga cgttac 1376

<210> 3619

<211> 11077

<212> DNA

<213> *Aspergillus nidulans*

<400>

3619

gtgaagattc tcttggtctgc tggagcgaac ccacgagctg ttaactcaca aggcaatgag 60
ccaagtgatc ttgtccccga tgactgcat gagatccggc aactggttga gaaagcaaaa 120
gcccagcgaa gcccagcaaa caggcggttcg gaagagacaa gcgtaccgcc aaatcgcat 180
tcgtcctcgc gacgaatctc aggcgccagc ccacgcatgt cccccccagc tagtggccaa 240
cgcagccctc cgtatcccag cacaatggcg acaaagcgaa agagcgtaag gagtgaagcc 300
acgagaaaacg atctgctgtg gaccaaggct actccggaaa atcttcaggc atttgctcgc 360
aaaggtgaca ttatgggtgt cggaatatt cttaacgtag gacaaaaggc agaccagag 420
tcgatgatag ctgctgctaa aggtggccat gatgaggtat tgtcccttct tcttggtatg 480
ggcgacgcgg atcctgatcc cgccccata tcttctatga agaccggaca taacactccg 540
atgcttgccg caattgggtc tggaaatctc gctgttatca agctttttct ggatcagaaa 600
ggcttcaacc caactcgccg actttgtgat ggcattgacct attatgagct atctaggaag 660
cgcagggcag acaattggga ggaagaatat gatacactca aagaggcata cgacaaatat 720
atcaagaaca aaaagcaacg cagatctgat cacctatcac cgcgtcgaac acgagataag 780
gagaaggata gcaagcgtc taccgcagg gagtctcctt cgcccgctag gtcaaggcaa 840
aacggtagtc ccggccccgc tgataaggac tcagcagcca tgccaagaga aaagaagggg 900
attgctcaac cgagggataa ggcagggttc ggcatacatc gtccgaagca tctacatcaa 960
gacatggata cggtcgggtc cgaaccgtcc aggcagaagg cgggtgtcgac ggttaaggat 1020
agcgatccga acagggggca agacgtaatc aagagaagac gcctcatcgc gggacgaccg 1080
ccccaggata gggagcgcaa ggtgcctagt ttaccctcat cagattcaac gtccagccgt 1140
gaggacggtg tcaaacctcg tccggaccgt tcttctgagc cgacgtctaa aacttcacaa 1200
cttaagcgag gacgtagcag cgctagccct gagcgacctc gttctcgcgg gactggggct 1260
gatagtaata accgtgatat gctgaagaag aagagaagag ttttgtccga ggaaggggag 1320
ccgaatgtta ctaatggagc tttaaaggga cattacactg tcgcagttga tgatgtcaag 1380
tcgcctcctc gacaaaagct tggcatcagc gccagtgatt ccaaaagtga tcgttcgcag 1440
gattcacgtt ttgtgtcccc taaggaacaa aacttggtta aagaagagcg ggaaaaacag 1500
gaaacgcacg gattgggttg tattcctatg gaagaggcca aggtagttga agtggacaaa 1560

gaatctcccc cgccgataca tcaagtgtt gatcgaagcg aacctaattg cgataccgag 1620
 accgaaatcc ctcttagcca ggattctgag aaaaagatgg ccaaggaaac agagcaggag 1680
 cggctagctc aagaagcccc ggctgccgac gcggaaaagg ctcgcgcgca ggaagaagag 1740
 gaacgagcag cccgagcggc ctgtatagcg ctggaaaagg aggaagaaaa taagcggaaa 1800
 gaagctgagc agcggcgaat taagcaagca gaggacgagc atcagaagcg cctcgaacag 1860
 gaaaggcagc ggcttgcgaa aattcggagg gagcaggaag cgcacgagca acgtcgtcga 1920
 gatgcacttc ccagtcgcct ttgtatagca gctaattctg tcggatccaa caacccgcaa 1980
 tcacgcagcc acacatgggt gaagaaattc atgccagtgg ttacagcgga gaccagacag 2040
 cttgatccta gctgtagtgc agacgttgca aatgagcgat gggttccaaa ctatctcgtt 2100
 gctccgctgc tagctaccaa cgacctccag ttgtcccagt attccagttg ggagaagcgc 2160
 cacgtaacac ctacgcaaag gatgaatttg tggcgggtta cacggcgaat gctcgtgcag 2220
 gcggacgata cggagttctt gacagcatcg tttgggcaga tcatgcagaa ggatagtga 2280
 actcggagca agtactttga tatggatcat gtcttctggg taaaggtagc tttttatgtt 2340
 aatgtagtat ttcattcgat aactgatttt cgcagcttcc cgatttcagc gacctcgtcc 2400
 ctcatattcc tcatctccat gggctggaca tacagtttct gaagatgcac atcgatcgag 2460
 aaccgagttt caatcctgcc tctcaaccat ccctgtcaaa tggacatatt gatggaccgc 2520
 atgagaaaacc tggaccttac gaacaaacac ttaccaatgg ctatgcgcac aggcggccaa 2580
 gtacatatgt ctgattctgt cagtccgcac cacttgtaga ggtggacgat tttccttgca 2640
 tgtatgacta tgatacctta tgtgacgca cacacgatga gtagttggat agacaagctt 2700
 gcattctcac tttttgagge tgcacattga ataacatgtc tgatgaaaac tgcaagcctt 2760
 gaggatgagt aatcacgtga tacaacaaca cgtgactata acatgactaa gtagggcaca 2820
 cggataggtc taggcgagge agaatcgcat taccatccca caatttcagc attccttccc 2880
 cataacacca cgactcttcg aggatattcc gacattcaaa catcgtagta acacatcatc 2940
 aaaatgggtg gtacagctca tataatgcc tcaaactgtc ctcaacacgc agctatgcgc 3000
 agtaaacgaa cgcagaagcc gaactaacat tttctccgc ttttcagtcg gacggagaag 3060
 agacccaatc caaccccccc gtcgccgctg aggaggtcga ggttcctgcc gagtctggcg 3120
 ccggcgggtc gatgtctgtc ctgatgtc tcaagggtgt ccttcgcatt gccctgatcc 3180

acgacggtct tgcccgtggt ctccgcgagg ccgctaaggc cctcgaccgc cgtcaggccc 3240
 acatgtgtgt tctcaacgag ggctgcgagg aggaggccta caagaagctc gttgtcgtc 3300
 tctgctctga gcacaagatc cctctcatca aggttccccga tggaaagatg ctcggcgagt 3360
 gggttggcct ctgtacgtac ctcgaaacccc caaaaaacaa ctaccaaagg accctggagg 3420
 aattgcagaa gttcactata ggacgaatgc taacagttat ttacttaaca ggccagcttg 3480
 accgtgaggg taacgcgcgc aaggttgtca actgctcttg cgttgttgtt aaggactggg 3540
 gtgaggagag ccaggagcgt tctgttctcc tcaactactt ccagactgag cagtaaattg 3600
 tctctatccc gcgacaacag ctttaaggttc agattgatgt gatgtgatat ggatgcgctg 3660
 gagggattta actatctgtc tgctggcgag gatattcaca ggccccgtct gtctttgtgc 3720
 tttggtacag accctgactg ttgggattga gatctatcta ttattgatg tcggaaaatg 3780
 aaaaaataaa gaacaaggat tgacaagttc cgtgctctct ctacgtaatt ggcccaatgg 3840
 aatggtaaat ttgcaactgt gatttacgcg ataatagttc tatacatcag tatagatagt 3900
 aaactagtga ctttggttg aggaagtccg ctagataatc tcgaaagact atacacagat 3960
 aatcgtaaat tgacaacacc aggtatgcag atgtatcttg tggaattaca accgaacgcc 4020
 tagcgaaagg aaagaagcaa gctcaagcgc gaccacaata ttattgaatg aaaagccaac 4080
 taccggaagc tatacgaggg tcgggtcatc atcttcgttt ctggtttcaa cgacaattgc 4140
 tgatacgtg agctgccggg gtcgtaatat agtccttcaa tattgccggg ctgcggtgc 4200
 aaagaaatgt aatagaagcc tgatattgtg aggccttggc gtgcatctgt aggggtaatg 4260
 aaacatcgtt ctggaatttc tattagctaa caagaccgta aatagagggt taggacagga 4320
 aagtaggggt aatagtacct ttccaacgca tcagaatcca gcccttgac agtcctccg 4380
 taatccattt cctggacact agatttcggg tcatctcatc atcggttaga tccttgaacg 4440
 gctgcaattc tcgccagtac gtgctgtcga tctcgcatc tgctttaaaa ttcttcgtct 4500
 caaggggtgtg tgagttgaag tcaataatct ctccctcaag aaaagtaatg ataaccgcgt 4560
 tttgcgatgg tgaagttttg tcggggatat tgtacgttc catagtcccc gacagggcca 4620
 tgtcgtgagt gttgacatcg tggatggcca ctttaaccgg ccagttctct tccttgccgg 4680
 tccgtaaatt gtagacttga ctggcaaaat atcttcttcc gtttgttgtc tgtatagtga 4740
 tgcggttttg atcactgcc a ttgactatca ttgggtcggt ggaggatgaa ctgggccctt 4800

gctgaggaag gatgacgctg gcgctgctag cggctctttg gaacccggag aaggtcatgc 4860
ccgggcgaag ccatgagcac tctgggtggg ggcataatga ggaagtgtct agtataaagt 4920
cgtcctcgtc ccaggaaata aggtctaatt ggacaaatcc gccatcggtc gcggacctca 4980
agctttcctc aaacgaactt gaatagcgta accgatcgag ataacgaata gtttctttca 5040
gtctcgggct gggaggggtt tctaggtgca actgtcgggt ggcgctgacc cgcgagcgaa 5100
ggtcactata tgtagaggt cgatgtggct cgctgcggcc gctgggaagg aatcgccacg 5160
cccgggaggt gactgcactt gatcgaggct cctccgtacg ttcgaaaagg taatcatgca 5220
gcggccgtgt ccgggtgaag cggggctgac gaggtattga ctgtggttgt gtttctgcgg 5280
tagattcgta cggttgggtga ctattctcta tcggatcgct ggagtttgtc tgaggatcgc 5340
ggcgtgcggc acgccgagag gtactgcgtt cggagagtcg accgagccat gaggagagtg 5400
cgttgctttg tattggcgga taagggttat cgtcctcgtc gtcggacgtc ggagcccagc 5460
cataaagtgt acgcgaattc gatacccggc cttcatagtt tgggaggttg ctgtgcatgg 5520
tactatacct ctcttcgttc ggcccggaac gctggcgacg caaaatcggg atgcgacggt 5580
ttatttcgac agaaaggcgc tcatcgagtt ccatctcaag cccggacagg atctgttgtc 5640
ggcggcgaag ctggcgaccg agtaaagatg aagagggacc aggcggagac cgcacgcgag 5700
atctcagaaa gttcacgtta tcattatgag catcgtcaaa tccagcatgg cgttggttac 5760
gatgagagga cgaggtagca gccagaggtg atcgagaggg ggcattctgt ggagaacgac 5820
agataagtac aggctatgat atggcgggaa aacaagagaa accaaatgcg aagcagtatc 5880
ctcgagataa ttttcggaag atggctaaga ttgtaggaga acgaatggaa agacgtacag 5940
tgggcgaatt taccgggggc atgatatccg gggttatcgg tgcgttcgcc gcgaagatgc 6000
gcggacacgg tgcgccagat gataaagcgc atgcagtatt ctaaggagga gaagggtaac 6060
tgatgggcgg gagtacgtag atagactgca agggagatgg atgaagcaag gggccggagt 6120
gaggcgagca agaaagagta gaaagaggat gaggttatcc aagtggtcgt gagtgaaacc 6180
gaacttcaac atctgatcct cccacccgag cgccccaatc agtatacaac tcacgctatc 6240
atttcaaadc tgagttatct atataacagt ggctacattg ttctccgtaa atgccgtcgt 6300
ctgctatctt ctggggcgaca gtacagcttt aatcttcac cacaatcta aatacccttt 6360
tagaaatcga caatattccc tgccaatgga acatatacct caatcacttg ctccatcgct 6420

agacttgtgg acggcaatct ctccggtgtt ttcttccta cacaagcatt gacacaatcg 6480
 caaaacagtc ccggaagcgt tgccttgaag accaggatcc aaaatggcat cagctgctac 6540
 ggaaggatct gtcttagaag gtcgtgaaga tgttctagct ataatttctt gaaaaccttg 6600
 ccatcgcatc tcggtagcgg tttgtcaatg tggtcgctg gagaaaggcc cccgggtggc 6660
 gatgtcaatg agtgtataca ttggtctcta atgagcctcc aaggggcatag aacagagcgc 6720
 tctatgtgat catattcaaa cgtcgctggc aataacaaca tatctgactg gaaacataac 6780
 cttcactacg gtcgtcaagg tcaagcctac gattctacga agcacgtcgg atgacaaagc 6840
 tgcgttatag ctccctcactg gaggcaatat tcgagaccac tatgtgattg tgtggtctgt 6900
 agttcgagac aaacgagaag agcaatcgtc acgcagccct tgactgcata ccttgacat 6960
 ttttggagtt gtaaagcatg gacgagttgt tcgctttttc gtgtgcttgg ttttggttga 7020
 tatggtaggt tcaggggtgg tcatattata gcatagcgt cgtctgcgt aggtgtggat 7080
 tcggtattct ttcagtctat atttgcttgt gccatctgta gtgtatatac tctctatcaa 7140
 ctatatgtgc tgtgaatatt ctccgtaacc tgaagttaca gcgcatgcgg gcttaagctg 7200
 ctgtccgcgc actattcaac tcatctgccc gcctgataca gtccacaata atattccaga 7260
 acgcatcaat atcaactccg cggggaatgg tgaccccagt agcgtgactg gacactactg 7320
 aacggccgag ctgtcctacc atagcgacat ctgttccatg aagtccatct gtaacgacgg 7380
 tgactgcaaa ccgctcgccg ttgcggtcat caaactttaa agcctgctcg ggatatctcc 7440
 tagcgaagtc cgggttaagg gttgaaataa cagcggctac tgcaagagga tcatggagcg 7500
 gaggacctgt tgtgagacca aattcggtt cgtaagttga cgcaaagaag aggagtagtt 7560
 cgtatagcat ttggcgaagg acggtcggag ctgttgaggg gtcaccatcg ccgtgcaaaa 7620
 tgccgggttg gacatcgca gaggcgagga cttggtgcgt caggtctagc gtcacagga 7680
 aggtcttggg tgcgagaatc tcgttgccga agatcgattg ggccgactca gggtcgact 7740
 atatcgccgt cagacttgag ccaacactag taatccttca ttgagcgatg tacgtagata 7800
 ttgaactccg ctaatggagt gacgttccc acccggtttt catgcccac tagtctgctt 7860
 attggggcat tcgcaaatcc atctccaaca ccaccgcca ttatgctgag accttgata 7920
 tgcactgcaa cttctggaaa ggtcgcaaac aacaaggcaa tattggtcaa tgttcccgt 7980
 gctatgaccc atggtgtgcc cttgggctga gccataagag catcacgcat agcaaggatg 8040

ggatttttgt ctgtgatagg aggtctggag gctttcggaa ggagttcagt tccgtcaatg 8100
 cctgagtcgc ctgtcccacc atcgcggtatt agcttgctgt ataaaattga gcgtgttccg 8160
 ttggcaactg accatggatg ttaggagcat ggactgcagg cctgcaaaac ggttttctgg 8220
 ttccaggata aacagggatt tcgggcctgc cgatagcttc tagcaccctt gtggcattga 8280
 tgggtgtatt ctcgagagaa gcattgccat gaatagtcgt gatgccaaa aggttcaggg 8340
 atgggtgatg agctgcgaga aggattgcga aagcacccta tgatcattgg acggacgctg 8400
 cgttagactt cgtagcatag gtgtgcgaca acatcgctag aacctacatc gtggcctgaa 8460
 tattagtgtc agcttctatg ctagatgata gaatcaatcc gggttgggtt gcagaccagg 8520
 atcacaatcc aaccagacag gaatcggaat gttcgttgcg gctgtcattg tcaaccggtt 8580
 aaagcgggtca ctgggctacc tccctgcgaa ttttgcctc taactacact ggaagatcca 8640
 agcttgagac tggagacagt atggagtcg gagactaagg agacggggga tgcgataagc 8700
 gataagcgtt tatcaaaagc cctgagccct atttctttat cgggactgca gtgacgttcc 8760
 atagtcgcgc gtcagagcag tcggtcgaca ttaggtagcc aacaacgcct gcagatctgc 8820
 gctttatcta acttccctgat ttcgttgcgc tctacttgc ttttaactcaa cctcccttc 8880
 gcctgcgatg aaatgaccac cgaccctgct ccttcaggcc ttcaaccctt ttcacaactt 8940
 aaggcgggtc caactacatc cagctcgaag tcgactaccg tgccagccgc aaccactact 9000
 atagcacctt cgcagtcttc ccgcgggtt cagcccaaga gcgatagccg gaatgaacag 9060
 cttaatggag ccaatgacag ggcactagcc gccttggttc gacgcgtgct ttgtcctcaa 9120
 ttgggaagct atggcgggtgc cacttctctg tatgctccag aggagctact accgccgctg 9180
 acgagctcga atgacgtgga ccgtcaactc tacgctctag tcgccatgat ggtcaaggaa 9240
 ttcattctctt cctggtattc gaagattacg tcggatcaag ctcttatcag tgaagtgtg 9300
 cagttaatcg cccacctcac tcgggccctt gagcaaagac tgcgggaggt agacattgta 9360
 cagctgggtc tggacgatat tccctccctg gtggaaacac atattacctg taagtcatct 9420
 tactgccatt tggcaagaca tggggtttca ctaaccgcg cgtttgagga caagcgtatc 9480
 gattggccac ggagcagaca aacttgtccg gtttagcacc ttcatcgcg gaaatatacc 9540
 atgccctgaa cccgcaccca ggcctttcac cggttcaga cccctctgat gcgaactcag 9600
 tcgcgcagca acgtgacagt gaagcgatat atcgaagact attagtaa at ggtgttctga 9660

ccgttcttct accaactgag gacctcgaga atgcatgttt gcgaaccttg ttgagcgata 9720
 ttttatctga tctcattctg ggaaaccaag taagcgaaag ggtatgcgaa ggctgggttg 9780
 tttgggagac tacgacaaag ctgctggata tgctctcaag ggacaaagac ggacgcgaag 9840
 caggggcggc agaaaccaa tcacctcgcc caaacgggt acatcaattc aatttgcttg 9900
 gaaacacaga caacgacaat gatactacct cttcacaacc ctcggttggtg atatggctca 9960
 tccttcagta cgccttttac gcatatgtga ctctacgatt tattgtagtt ggattgttcc 10020
 gcaaagcctc ctcatcgaca ctgaatccaa gtctgcgtcc tctgacagc tttgtgaaca 10080
 agtcaactac gaaatatgcc gtcacaggca aacgcccgtt acttgattat cggctgtttg 10140
 gcatgttgct gcagctgcta gatctctctc ggcggtatgcc atggctggga ggactgatag 10200
 ccctctttca gtacttgatc ctggctggcc caggaaaagt gggagaaacc ggcagcgttc 10260
 ttgatagggt agttgctctg agtatttgga ttctgcctc cttgcccta ttcacgcgat 10320
 ggctgcacga tgtatcacga gtctgtactc ctgtccacat ggcccaacct gccttcagga 10380
 aagatcaagg aactcaagg acagtcgact gttgaaaaga acgctgtgga cgaatggctt 10440
 ggcaatgag tcgtatgcgg cttgatcccc gaacggtgat ctacgattgg tgttgcaaac 10500
 ttggcaagt ctttcacaat tcggccggct ccaggcgatt cattggagga agggcggagg 10560
 gacagcggac gtcaatgcag tggatttaca ttgctcgcat gctgcatcga tcaattgatc 10620
 tgctggtaga tgcacggctc atccttcgca atcaccagca agcggcgctc attcgctgga 10680
 gcatttattg tatcgagcgt tacacacctg acctcaaat accgtcatat aacgaagcgc 10740
 gtattgtcaa tacggcgaag gagggaggtc cccgactgac ccctggcgag accttcggga 10800
 tcattttctc ttctgtgcat gccctgaagt ctgtttgtgc cgcagtatca tggctgccac 10860
 ttgtccagac ctttactctt caaggctaca ggctcgggta tgaattcgct tgccgattgg 10920
 ctgcgcgcaa cagacagaca aatcgttcaa tgtttccctc cgagcttttg tgctttacat 10980
 tcacagctta tgtttgttca ggagtgattg gacaggcccg gccctttccg tcccgtgctg 11040
 gaaccagact ccgctgtcta tcgccgctg aagcagg 11077

<210> 3620
 <211> 1221
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 3620

```

ttctatcact tggagagtgc ttaagccctt ttcacccacc cggggggggg agtaggtatc 60
tcgaacagaa gagcgggcta tcgctaatac gtgatattct agagtaatgc ttggccctca 120
aagtgcggca atgggggaat cgactcagat tacacccacg tctatgtcgg cgcggtagca 180
aatgagctat atcttgcact tgctgtcag ctgcaccaatc gcgcctccga cagcgagtac 240
taccttggct gggccaaacg ccaatgggtc tggttccggg atagcggatt gattaatgag 300
aattacacga taaatgacgg gttgaccaac gactgcgcaa acaacggcgc cacagcgtgg 360
acttacaatc agggcattat cctggggggg ttggttgagt tgaaccgcgc cgtggataac 420
gagacttcct caaattcaac gtatctacaa gaagctcata agattgcgat gagcgcaatc 480
gccgcattga cagacgatta ccattgcctt catgaacct gtgagccaga taactgtggg 540
ggagacaaa cgcagttcaa gggcatcttt atgcgaaact tgaggctcct gcacgaggtg 600
acaccaaagt atacctatgc ccagggtggtc aatgcttcag ctgagagtct gtgggcaaat 660
gatcgaacgg atgaaaacca gtttgggaatt gactggtctg gtcctgtgga cagtggcaaa 720
gtagatgctt cgacacagag ctgggtctt gatgcgttgg gttgctgcca tttgggaata 780
gaaattgttt gtgggacatt caccctggt tttgacataa tttttttatc tatagaacag 840
tttcgttggc gcattaccaa aaactgggtt gaccttttct ttccaatta acccgggata 900
gatgttttta aggacgggtt ttttcatttt cctctccct tccaagtta ggagggataa 960
aatccccacc ctcttacctt tttggggggg ggggtttttt tttttttaa aataatacac 1020
cacccttttt ggcggggcag ggagggggaa aacctttttt ccaccacccc tactaggagt 1080
ttgctgtccc cccaataaa aaaatcctct ctctgttgc actatataaa aaatggggga 1140
gactttttaa aactccccca ttttttttgt ggggggggtt ttcttncngg nggaatccct 1200
cttttggggc aaaaaaaaaa a 1221

```

<210> 3621
 <211> 1808
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 3621

tacagattat gattgaccat cegtgttct gaacccttc agccgcgaaa atttctattc 60
 ttctttgcc cctcatggtg ctctgccttg gcagatggac tagtacggca cgttggcgcc 120
 acataggagc cctcacagcg cctgaacagc gacagtagtg accacctgtt cacatggctt 180
 gacggatgat ataaatcccg tcttgggact aaagcctgcc agttgtgtcc tgcttttctt 240
 cgattcctgc agagtccga ggcctcggg atgcattggc tacggtctat acacgccgtt 300
 gttggcattt gtctggctgc cgectgcgtg aatgctaagg ccgctgtggt cgcgtcaaaa 360
 actatagagc tgtttccaga agtgacactc gaagaacggg ctcccactat tacaagccgg 420
 ccagaccctc cagtagttga ctttgggtgat gcagagacat acagaccgcy tatcggcgtc 480
 gacaccaact atctgacatg ggaggaatcg agtactaaag tgagtagact ccagaattcc 540
 cgaatatggg gttgaagctc acgcgaggta ccgactcgca gtggatcgtt gtgtggacag 600
 aatacctcac ccaagggccc tcgacgacgg agtatataaa gatgcacaca gctacggcga 660
 cggaggacgg ccagcgtcct ggtgatgttg ctatcttggg acccccgtg gttgctacag 720
 ctcttgccaa caccgttaca aagtcaatgg aagcatgtaa actcccaatt gtgaaacgca 780
 gggtcaggac aggtggcatg tacccttcaa gccccttctc tcttatacat aatcttatac 840
 agtaggtggc taactgtgtc agaactggc tgccctctcg aagaagggtt tggacatgtc 900
 gaaaaaggcg ctttggagggt catcccgat tccgcctggg cactgccaga gatccccatc 960
 aacgacatcc ttccacttga tacgtacgga caagagacgt tgtccctaatt gctgcaagtg 1020
 ctcaagaccc aggcacgacg gaacatgctg aagatgcttt acgtgtcgtc gatcatctcg 1080
 ctatcagtca gcggtgtcga ggcgatcaag cacgaatggt tccaccgatt caacatcccc 1140
 gccaatggaa ttcccaagcc caaagaagag gaagatgggc tgacctgcga taagaacgcy 1200
 cctcgcgatg agttctccct gacgtgcacg gatcataact gcaatggacc gaatgagtgt 1260
 tctgatccca tagcttggtt tacctcgaac gaccgtgca ctactgggca tgacaagggc 1320
 tgtctctgtc tgcattgagtc tttcgatatt atcgagaat acattccatt agagttcttt 1380
 gaagtgcagg atgagataat cgagggactg cttaatcct ccgccggcgt cccttccaaa 1440
 cccttcccta ctttgagggt gttgccttcc ggcgactcaa tcacgaaggg atctggcagc 1500
 agtgacgaca acggataccg caggaggctg cagcacttac tgctcaatga tgcagacact 1560
 ggaggggaca acgatgacga cagggtatcc aaagtggact tcattggcac gttccgtaat 1620

ggcaacttcg aggaccgcga ccaccagggc ctctctggga agcgaatctc ggacatcgcc 1680
 cctgcgtcag atcgtgttgt caaggcacgt cccacgtca tcctcgccca cgtaggcacc 1740
 ancagtccgt agttgcgtaa tcttcccgtc cagtcatgcg ccgcaccgcc tgtgggcac 1800
 cataaaca 1808

<210> 3622
 <211> 1245
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3622

ctggagccca atcgttttat tttaaccaacc caaaacctca agatgtaggg ttaagatata 60
 aacaccctta cctctataca tattggcggtg aacaggcccc tgtgccccaa gggatgcacc 120
 aataactaagt ccggttgcta ctcgaaagag gatgggctat ccataactaat gcaaccgtta 180
 agatgactgg cgatgatgtg gaagcgctg aacaaactca ttgctctgca aggcctctat 240
 attggcaacg gcagctgaaa cattggcctc gtttgatttt ccatttgccg gtatattcct 300
 cactgcaagc cacaacatc caagaccaga ctagtggctg gtatccccgg agcctctacg 360
 tgtagtaca gtgactacca ccgttactgt aatcaaggta ctcatcgac gaagctaacy 420
 acagggctga gtctgacggg cctactcgtc ttatccccca atctctttga tctcaggcca 480
 cgaaagctcc actaatatag cctcgttgtc ataaagcagc gcacaggccg ctagaggatc 540
 aagtttgaca ggccagccat cagcagaacg tttcatgtcc aatgtcgatt cctggagatg 600
 ctagactcgg gaaatgtccg gccctatcat gggcgctctc tctttaacct ttaaacyctg 660
 gagccacaga gttaagccac ctcttccatg ctagtgcgg aatggaaata actattgata 720
 cggttacagt ctaccgaggt acgcaggatg aagaaccctt ccccgccgg atgggacact 780
 aactgtccc tgcattgctca ttagtccagc atgccaaagc ctcatcaaaa gctccatcca 840
 attgccttgg gtatctgggt tcaactcccag tgctaaacga gcagataagg tggacccatc 900
 ccttaggcca ctctctccaa aagcactctc tgggtgttgc gataattggg ttgtctaact 960
 tgagatatgc ataatgcgtt gggatcccag ttttcagtcc tcttgtctgc cgtttgcccc 1020
 ctttttctg cattggcctg cattggcctg cattggaagg atcgattatt aatcgtctta 1080
 ttgcgtgaca ctcgatctt aatattcaac cgggtacact gtgcttgagc tctttgttga 1140

taggctcttt tgagcgccga tgccagtcg ctcttgggat gaatctggat ggtttcagga 1200
gcaggggaca atggctcgct aatgcggcga ttttatttct actgc 1245

<210> 3623
<211> 9994
<212> DNA
<213> *Aspergillus nidulans*

<400> 3623

taacgcgctg aattgaaacc gttttctgcg tcaagcgaaa ggatgagagg accaggacta 60
gattccatgc agtaacaagt atctgatatt gagcctgtct ctgaaggata gaaattgtcc 120
ggctcaggca ccagatagaa gggttgaatc cagccgcttg gcagatgacg atcctcctat 180
tcgccggatc tttggcaact tagtctgatg acatcgacct ccaaggccca cgactggggc 240
gcagtcttca ttttcttcat aatctccct tcaatctcgc agaggcaciaa cttgcgcaat 300
ctcagcataa tctaccacgt cttatttttc ctctgtacct gtatcgacgc tctgtgaaca 360
agagtctcca cgctcccca gacccttg gacatttccc cggctcgtct ccgaaaatct 420
acatagtcac catggatttc tgtgggcgtc aaaaagtcgt tcggcgcaag atgggtgctct 480
tgtcagtgtg acatacgacg aaaattctgg ccatcttctc tgactgggaa acagaggaga 540
tggcgcttgc ggtaaaacct cgccctgaa cgtgttcaca agagggtgaa tcgctcata 600
ttctcgagcc aatcgtgcga tcgctgataa acgtcattta gattctttcc aacagtctag 660
tgaggctcct tcatccaatt tcaattctag tattgacctg cgatgcgaca tagtgaaccg 720
actgtctttg gtgtgtagtt ctcccgcata aagttgacct ggtattgact tgacctttt 780
agagaactac gtccatggta tttgcgcct cgctccttgc tcccgggctg tacttacatt 840
cgcaagatat ctctgctgat aacgtgcata tggaactgtc gttatgggac acggctggcc 900
aagaagaatt tgatcgatta cgtgcactct catatgagga tacgcatgtc ataatgctgt 960
gctttagtgt aaggctggtg ccagcctcc ggctagtgg ctaatacatg gaaaacaggt 1020
cgacagccct gactcgttcg aaaacgtggc cagtaaatgg atcgaagaga tctcggagaa 1080
tgtgcctgga gtgaaactgg tcctaacagc gcttaagtgc gacttgcgga aggacgaata 1140
tatgaatgac aaccgcaatg ttatcacata cgagcaagga ctggcaaagg cgaaggaaat 1200
tggggctgtg aagtacctcg gtaaggcgtc gatgctgttc tggagtgagc gaccggagtt 1260

ggtctaatagc ttccacagag tgctctgcgg tccaaaaccg cggcattagg gaagccttct 1320
 acgaagccgc caaagttgcc cttgaggtga aggctcaaaa caccggctcg tcgcaaagcc 1380
 gctgcgtcat tcagtgatct gacccctcgc tgaatttcgc cttaatatta tttgtctata 1440
 taccgcccga acccagtgtt cggattgccg atatctatca catctcgcca caagtcctaa 1500
 gactctgctt tacgactcaa gcaatcagcc atttagcccc gcgatatctg ctttaccgcc 1560
 tattttcgat atatatatat tttctacttt agatacacca ctacactaat ttcttaattt 1620
 gtctggggaa agaaaatcga gatttttccc atattaagtt accagttgtg tacgctctct 1680
 acacaccgtg tcccttttag tgtgcatgtt cgcccctatt ccattgctgc tggacataaa 1740
 gactactcct gcttacatcg tggacaaact tctatgcgtg tatttttatt cgagtatgtt 1800
 ttgtcatgat gtacggttgg atcagacata ctgcaacttg ttaattcaat agcatgctcc 1860
 tctggcgaga tcattagcgc tgccccgtag gatttttgac attccactag catatctata 1920
 cagcaacagc accagagcaa ctacctcatg agcttctgtt aactcactat atcctgctcg 1980
 ctcaccttat aaacctctc aatcttctcc ccgagcgcaa tctgcccacg agcataatcg 2040
 ttattcacc cctgcacaaa cgcacaaaca aaccgccccg caacctcatc ggtggagacg 2100
 cccttaatgc cctgcccttc caggctcgtt gcctccctcc cctcaagtcc acacgccacg 2160
 atctgccgga aaaaccacat cggctcctcc gtcacattga atccaatccc gtagctgctg 2220
 atattccgcc ttaagtgaac gccgacagcc gtgatctttc tgggcagctc atcgccattg 2280
 ctaccagtag aggaagggcg cggcacccaa acccccggat cctccgtgat cagcccatca 2340
 agcccgtagc accgtagcac atccacaaca ctgttctcta gtaaccggat atggcagcgt 2400
 ggacttaatc ccatccgtcg cagatccaga atcgatatg cgaccatctg cccggggcca 2460
 tggtagcttg tttgtccacc gcgcagtgtc gggtgatact ctgctatcgg cccattttta 2520
 ttgtgtaatt ttgacccga ctccggtggg gtaagcaacg atcggtattg ttcgagagca 2580
 ggagggagag agaggggtctt tgaggaggag ggagaggtgt ttgaaggtgg caggtcccga 2640
 cgcccagtcg tgtatacggg gtttgagtg aaagtgatta ttgttgggtc cgggggcggc 2700
 ggtgttggtt ttgcggcatc ggcgaccagc tttttgtggg cgaggaggcg ggttgtgagg 2760
 gttgttgga gggctgcgac acgctgaag gaggttatgt cggggaagtg aaggtgggcg 2820
 agtctcattg ttctttttgt ccttgtggag gagcgagac ttggtggcag aacgggggac 2880

tgaatggatt tcgaattgac tgaatcattc gcttgtactg aagatagtcg aaggttgaga 2940
gctgtaattg aagcaattga aatcttttga gctatgatac atccacgccc gacgtcatta 3000
ctgaaatcat gtgattgagg ctttaacaag aagctggctc tgagacggta cagaaccaat 3060
cgggtttttt gctagctcta tacagctacc tggttactct tctttctgaa agaatatgca 3120
taacataaga gcatttcgaa ttttgtacta attttggaaa cgtcagtggg agtttgaagc 3180
tgaggaaga agacaccgac tggaaactaa tcaatggccg tgtttatatg tacccaatcg 3240
tgtgatgttt agacttgaat gctcttttat tttcaatata tataagatcc atagatcatc 3300
ggacataata ggaacaatcc aaatagagca cgaagctcct acagtacgac accgttagga 3360
gtggtttcgt cgggcccttc ttcgccctct tggacgacaa gccaatctcg cagcctcct 3420
ttccaatcag ccagtcggcc ctgcgcacc cggatgggta tgactcggac atcatcgta 3480
attgaaagac tgggccggcg ctgaccaggt tgctgtgcct ggccaaaagt gtcattttct 3540
tctcgaatg tgttattttc caagtgtctc tctttacacc atgtttcctc ctcggaattc 3600
ggctgcaaaa agcgagcttc ccccgtata gtagtggaaa tgctggacag cgcactcgtg 3660
ttgaggttca gtagcagact agccagagag gaccgggttg ctgcgggttg aggtgatcca 3720
tcgcgagtat tcccggggtt tgaagcacgg gtaggcggac gatgtgacac ccaatcgtgt 3780
actagtagcg agactcgtgg gttcgtctgt agatgagtgg tcttccgaga cgaggaattg 3840
gtggatcatga taatcgtggg gtacggatcg aagggtgttg agggcagata tgtgtaggac 3900
attagggaaa tgtgtggagt gaggccatca catgttgcta agtgaagcta cagacatttt 3960
ttgcgttagt gacaaacaga aaggatcaag agtgtttagt tcaacttacg aagcgggagt 4020
tcttgaggca cgatgaaacc tccggtggga gggtagttgc aacatggcga tgggtagttg 4080
tagcggaggc ttcataagaa agcggagggt tcagcgaatc gtcattgtt tctggtctgg 4140
cgttgtttcg agacggagge aaatgcacaa agggcattct ttcgtttag ctcttcgtcg 4200
gagattgtga ggtagagggc gattacttca taatggccc atgggggtgg gaccggcgg 4260
cgcatTTTTc tgacttggtc tacggagcac agcaactggc ttcggggcgg ccctcatcta 4320
aagctataca attactacga gtaaagggga tagatataat ttgagttatg tgcacagtc 4380
agcagagact agcatgcttt agcttacgtc ttactgcata gaattgttgt tccccatt 4440
ttcactgagt tgagggtaaa tgccgtggca gctggtcatt tttggaataa ctgttgattg 4500

.cgagaagcca tgtgcacgtg acgtatacgc gctgggagaa tactactcag acaggggtggt 4560
 ctctttgcag aatagctttg gcctcctgta catgtaatca gtctccaact caagccatgt 4620
 cgtcatagat atgggggaaac tgaaccagat cactcatatc tccccaataa aggggggatc 4680
 tcaaattctca atacgaacca acttactgtc attatttcat gatcaacagg cggcaatata 4740
 gacaccgagg tccttttcacg gcgagcacia ttgaacgtca gcatcaacta aaggctctag 4800
 gctgaagctt agggcccaag aactataaac accttccccg cacatcggca ccaaggaaag 4860
 ctacgagtgc agtgctatcc ccagcttcc cctcatttct cccctctttc catctcaacc 4920
 gttaccattg gtgtgttaat tattcttgca tctccttccc accatctgca aatctaggaa 4980
 ttctctctcg acgacttact tgactttgct gatcctgggc tttgagcatg ctgctttctt 5040
 actggttccc gactgttact cctgctgtgt tgcgcctgcc ttttaagcgt ctgctttgtg 5100
 caccctgtgt catcttcagc taatccctgc tccttgtctt ctataatacg ctctcttcag 5160
 agtccctctt gtgatctatt cgctacgga cagggtgtga tccctcctgc ttctgttgt 5220
 atcttagtaa acaagcacca cccttctct cctgacagtt tttcactctc gttgtcgtct 5280
 gcaaaatctt cctccgtgtt tgattgtctg aataccattt acttccatct cagccatgct 5340
 tgccccgga cgctttcggc ctgcacccct actcgccga cccttcaca catctgcccc 5400
 tgtctttcga gcgcctcca ttcgggacat cagcctgac tcggctgaag agttcaatgc 5460
 tcgccagaag gagtttcggg agaacctgga agtagctgc aagaagagag aacagcaaga 5520
 gagtcagtca gtcggtgctt ctgcttcac ctctgcatct gcccagccc ctgttaccg 5580
 tgatgcctc cgtgagtaca ctgacgctcc tgctgcttct tccaagagca acgcgagcga 5640
 tgaaaagagc cccatatttg acgcgcgga tggtcttgat aatcaagcat tgggctcact 5700
 ttctaccac cggtcttttag gagacgaaca cttgctggaa gtcaaccgat ctccgaaacg 5760
 cggaccactc tcatctttaa ttacggtac gaaagaaggc cagcagcttg atagagacat 5820
 cgaacgttct ttctcgcaag ttctcgccg cggaataac gtgcactcca ttgttttcca 5880
 cgacgtgaaa ccgatcgag tagacgaata tgctgacctg gttggcgaat ggtaccctag 5940
 aatggcggct gcggaagaaa accgcgtgaa tttggtggga agctggcga cgcaagtggg 6000
 agacaatgac acctttggta actataacca agccaccaat ctgttccgtt tgcctgaccg 6060
 aagcttcgac gctaacctca atttcaagtt catatctggg aatatcagcg gtatgaaggt 6120

taccatgctt ctcttcacaa tatctcgcgc caccaggat tccctgcctt cgacaagaaa 6180
ctcaagagtt tgattaagag caagaagacg tccttgatgc aggaattttc gttctggcct 6240
acaacgccgc cgcgccgcct gggaggcctc tttgaacttc gatcttacac tcttcacctc 6300
ggcaatcttc ttgagtggga aactcattgg cgccgtggcc ttaaggctcg tcgagaggtc 6360
atggaaggcg tgggcgcttg gtctgtgcag attggagacc tgaacacggt ccaccatctg 6420
tggcagtttg caaaccttga agagcgcaag atccgccggg agcagtcttg gggcatagaa 6480
ggctgggctg agacggtgca taaaactgtt ccgtcatcc aaaccatgca gagccgcac 6540
ttaatcccca tgccctggag cctgtcggc taggttcag gcctagtctg gcgatggctc 6600
attcatttcc ccgaagtacg agctctgaat aatggacaag ttcgactaag ttagtttgac 6660
gcgagaggat agaaaggggt gatatgggtt cgacggcaga cagttaaag taacaggagt 6720
ctgccagtct gcgtgcccgc gaggatgaag cgaatatatc ggtgctctcg gatcccgatc 6780
tttttgggac gagtcatttc acttcgcggt tctcttttgt tgtatgctaa agaagagtat 6840
cattagcgtt ttgcgggaca acccattgca tgtatttagt gcgtcaatct cagggatttt 6900
atgcatccga cactctttgt tgccctggtt ctcggttccc tagtcttaat ttccctgcta 6960
tcagatgaca tcgcatggga gccactcggg cttgataggc agactcaaaa cctagcgtt 7020
tgacgtggta tgccctgtac cctcggataa ttcgcaggcc atccatactc acaagacaac 7080
cccctcttgg cagtcaatct atcgcgcaat gatcgatc agaatgtgga aggcgggcgg 7140
agtaataatg ccttggacct tgggtcgtc ttttcgttgg agttaagca cgtgggtctc 7200
cgataccac caatacagtc aatactggcc attctgagtg aggcacggtt ttctgtgaca 7260
ttccccgtac ttctgtaat tccaattccc cgcggccgcc ctcaaggaag ccttttcaac 7320
cggcagaaaa aaagcgtcgc ataaatacct accaaagcgt gctggatttc tggacactgg 7380
acagtcgcca gtcgacagtt gtcaaagcca ctttgagac ctctctcttc tcctgttttt 7440
ctttgcgttt cttgcattat tgccagattc tgacctagac tctactgtt tctctgcttt 7500
cctcgacctt tctatctcta ttttattctt ccttcacgga ctctagagga cctgcccttg 7560
gcaaggcaaa cccaaccgcg accaatcagt tcggcgcacc agaacaagc ataataggga 7620
ctttttataa cgtagtcgc cagtgcgaaa gacgcttttt ccccgacagc caagatgggtg 7680
tacatccggc aacatgaatt atcgaacttg aagaactatc gatatgcagg cgtggaccat 7740

tcgctcatca gtcgatatgt cctcaaaccg ttctataata attttgtgat caagttcttt 7800
 cccatgagca tggcgtgagt agtgacgctg gtggcatttt tttgtgtatg gcttgactaa 7860
 cagccttctc ttatcttaga cctaattgctg taagtctact agcctctcag ccctatgcat 7920
 caaaataaag agcctcagga accaggaaat aagagaccga tggcgtcat ccctgaagac 7980
 ctgagcacia aactgatgaa ggatccgaaa ttaactgaag accggtagat cactttgaca 8040
 ggctatttct tcgtcttgat caacctcttt accgttctat actataacc aagcctggat 8100
 caggactgtc caccatgggt ctatgccagt tgcgccatcg ggctattctt gtaccagacg 8160
 tttgacgctg tagacggaat ccaagcgtat gtttcatcat ctgtcgtgtg gaggatggaa 8220
 ctaattcgcc ttatagaagg agaactaagc agagcggccc tcttggcgag ctttttgatc 8280
 acagtaagtg gagtagctga tattcttgca aatcatgtca ctgagacttg ttctgcaggt 8340
 gttgacgcct gcaacacggc cctgggagtc ttgatattcg ccggagtcac gaacctcggc 8400
 cagacttggg ctactgttct gacacttttt ggatgtatgt tgttccggag ccagaagca 8460
 gtgcgaaacc taatttcatt cccatagcta ccatgacctt ctatgtccag acctgggata 8520
 tgtattatac acaagtgttg acgttgggca tcgtctctgg tcctgttgaa ggggtactga 8580
 cgcttttgtt tgtcttcggg ttcaccgcat atatgggagg cggaagtctt tggcaccagc 8640
 ctatgttcga aacgatcggt gttcctaaac tcgagttcat ccctaagcag ctctatgact 8700
 tgcccttcac gcagtggat ctcatctatg gtgcggtcac gcttttcttc gccactggct 8760
 cgagcatcgc gcatgtcatc caggttcgca aggaacgtgg taaggattcg attggtccac 8820
 tcttcggtat ccttctctc gccttgacgt gggtagttgt accggcgtac ctgtacctaa 8880
 acccgacaat cctcgagaac tacctgggtc ctttgcct gtatgtcggc ctggtcaacg 8940
 cgtatgccgt tggacgaata atatgtgcc atttggtaca ccaagacttt ccctatttca 9000
 acattcttct tggacctctt gctttggctg ttgttgacag tgccggtgca ctttttggtg 9060
 tctggtcgtc aactctgatt ggtacaatcg gacagcctgc tttcgtttct ctatgcctgg 9120
 gtctgggcct tggcgtctac gggagctttg tggttaagtc tgcccttaca ttaagcattt 9180
 acaaatcgct aattgtccta gcatgatatc attaccacca tttgtgatta tattgatatc 9240
 tgggtgtttga caatcaagca cccctatgtg ccagaggagt ccgtcaacgg caatgtgggt 9300
 cgagcagcta agaagaacct atagggagtt gaagaggtac gtcacaagc caactaatat 9360

gagccctcgc ggatcaaaac tgcctggagc tacgccggag tttgtcggcg gctactgatt 9420
 tttgagttgg gtcctgcccc gcttcatgac cgtatcatta aagtaatgtt ttatgtctga 9480
 gcggattgga ttagcgatag agtaaagtat caatagaagt ttgtgatgac ctatgcttct 9540
 gtgcccgcga attatgtagt agagtttatg cataatcatg ccaaaaaatg ctgctagtga 9600
 ctaatctatt ccagcggttt ctggaacaag cggtttagcga gggctcgaac cctacgcttg 9660
 ccccccacg gcccgcccg gggaccagcg agaattcgct tcaaacctcg ccatctccac 9720
 gagacctctt ttgtcgcttt cacacctca agccagccat ctcatcagcg ctccatctca 9780
 actttcttcg ctgatcgact ttttgtctcg tcaagatggg aagttcagca tgtcaatttg 9840
 tcctagacga ccgcccataat cgactgttca aacgtcgatc aaatattcaa actctgctct 9900
 cgtggtcacc ttccgcgtcg tcgccagcac gatgcatttg acaaatcatc atgaaatcta 9960
 gtcattacgc caggagtcac ttccaacaat tgct 9994

<210> 3624
 <211> 1478
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3624

gcaccccccc acaacctccg cgctgctcta tgagccagac ggatatttct caactcctga 60
 tcaatggaca taaacgtaat taaattgtgg attgcagtgc gttcttgatc ggaatctaaa 120
 tacatatacc ttatctgcca ctcccttggt ccagacgttc ttttcatagt agtagatagt 180
 attacttgac cagcagtatc gccatctcgt atcagctacg tttgttgcca ctacttgctc 240
 tactggtata agaattcaag ttcgcaatat atcatctatc tctatgtggg cttcctcaat 300
 ccctctatag acatccctga gaaccggctt ctcgtaagc acgggagtct cttctagcaa 360
 ttgcgttcga taaatacatt tgacgagccc tgagaattcc aagtatgtaa tgaccggagg 420
 agacgggagg gatagggtgga attgcggtag agcaggatga taaatgaaaa tggaaaagtg 480
 aaaagtgaga agcaccatta catgagaaga caataaaatc agaaaaaagc aaaatctctc 540
 ccaataacca aaacgccgtt cgcatagtgt gtactcttag catggtgcgc ccctggtatc 600
 atcgcttaac tgtccttgac cacaagcact ttcaacggga ataatcgcat agacacaagg 660
 ctgagccccg gggtattcgt aaggacatca tgttgttgaa ttcgatcagc ggacagctgt 720

tgatagttca taggttacct tttcttttct ttcctttttt cttttctctc attcttttcgc 780
 tctttccagt cgtgctttcg cggccttata cctgctctta tgctcttgca cccattttgg 840
 cagtgtcttt tcagctatgc tgctggtttc gatgtgtccg atgtctagac ttcacgaccg 900
 tttgaacata acttagcggc gaagacgctt cgtgggcact ggagaatgat catacccatc 960
 gtccgtgtag gattgctctc ctgtgacatg ggaattgggt cgctgaaagg atgtctgacg 1020
 gaagtcagca ggtgtggatt gtggggagcg aaggagtcca aaggcgctg ggttcggagt 1080
 gaacgcattt tctagcatga tagaggtttc gtggatttct tgaggctgcg aaggatcttg 1140
 gttgctatac ggtggaacac ctagaggag agtctgctct gactgcgac agccctgtct 1200
 tagatttgtt gggcgctgt tactggtgga ataaaacaga tgagctgggt agtggtgaga 1260
 ttgttgatgt tgcccgggct gggcctgata atccacatgc atatcgtggt ccatcgacga 1320
 aaaccccgaa tgcgtaaaag tactgaggct gggatcagaa ctggagtttg gcgaagctgc 1380
 aggtatctgt tgatagggt gagtcctcaa acccgtgcag ggtttcatgt ggaatgatgg 1440
 attataagca aattggcggt gtgaagcgct gctcagta 1478

<210> 3625
 <211> 1995
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3625

ttcttgatcg acatccattt tgtcgtctcc cgaggagcg tccgtgactt cagtgtcacc 60
 acttcctca agtttctcga cttctgcctt cagagcggga acatcctgac tttccttctt 120
 agcggcggtg gctgtatcct gagaagtttt ttcccagtcg ataagcttcc gtgcaacact 180
 tggacgtcga atccaaaagg caacttcagg ctggatgccg aaatctttga taagggacgc 240
 aatgtcaggg acaaacgagt cgaattcgtc cactgataaa ttgctgcgaa gtaggtccag 300
 atactgagcg agaattcggg ggatttcac gaatatgta cccagcaact tgagctcaga 360
 ggagttctct gattctttga aaatgcacgt aagacgttcc tgagcaatcg caatgagcaa 420
 ctggccagca aggtttgagg aggtaagtga tttcaaaagc cgctttgaag tggttttgga 480
 ctcatgtcgt ttatccaata attggaggat ggtttgcgac tgcaggatct cggcggccgc 540
 catggcctgt atctgagagt cattgaaatt ggtatcgggt atgattccag ccatcgaact 600

aattatctgt tccagaataa taagatccgt ggaattatct tggcgtagtt gctcaacaac 660
gtattgcagc acggggggtt gatccattac tgaataccgt ttgaagggtc tgccagcaaa 720
ggtggccaag gcattaagcc atcggttgt gagcaggcca ccgtcctgta cccggcttcg 780
acctttttga ccaagcgaac tgatcaatgc ccatgtgagg atatcgtaac cgaggtaggt 840
gaagtaacga gcacactcca caacgacttc gattagattc tcgtaggatt caatttgact 900
tatagcaacg ttgatgacta ttcttggtt tgcgtacgca atcttggtcca aagcacgagc 960
cattggccgt atgtttgttt tgettagtct tttagtaca tcctttgttt ccgctcgtgc 1020
ttggtcgaaa gcagattgta tatcggggag tcgagaggtc tggccaaagt accactcagc 1080
atacatattg taccgagtgt ccctagggaa aaagctgatg aggtcgaaaa cttcattcac 1140
aacgccgggg ttggccttag tgagacttat agctgggacc agtagtctct tgcaaagatc 1200
ttgccaacgt gctctatctt ccgtggaatc atccttggtg agactgtgcc tgccaattct 1260
ggccagtttt gtcaacaggc tggagtcttg tccgatctta tgtccagaga tgtttaggaa 1320
agactcgcaa agtgcgaaaa catcgtcaac agattgacag atgggaatgt tgtcggacca 1380
gtcgtcccag tagaacctat aatcagttcc atcattcgtg tcttccttat cgagctgagc 1440
ccatctcaac gtccgacgtt ggggtgcctc tgtagtttg atgtggccct ttggcacacc 1500
agtctgatca tgactgggta tttgtttctg ttctcgaagc tcaactgatcg gcggtagagg 1560
gcgcacagag gcgtagacct tgctcaggca gtgatgaagg atgcgatgta tgaattcagg 1620
aagttcgga taggcacca tgagccaggg aaacttgctc aggatgaata gtgactcagg 1680
aattgcgccg attgctagca ggctcttcaa aagcaatacc ttttgatctg atggctccgg 1740
aagctcgttc tcctccgatt tagctgcagc tgttctttcc gcttcttgat ctttcccg 1800
agtcgtgaa cgagcctcgg agtctctaata acggggaata ggtagcgtgt cgtctgaaag 1860
agcaccagca gtcataagag catttaccac accgccagtc gggctgccct ctctctttct 1920
gccttttctt tcattctttc ctcttcaat acatccatag aattgtcagg ccgccagaga 1980
tgagggtaaa gatcg 1995

<210> 3626
<211> 2513
<212> DNA
<213> *Aspergillus nidulans*

<400>

3626

agcgtcgtga tggccctttg gggggtggtg aggatgatgc tcttcggaga accccaggat 60
gccagtgtac cttcatagtc taaaattatg agccgtcgct ttgcctgccg gtacctgtct 120
tcaagcttgt tcatagggag tctgggaaca gccatgatct cacgggacga ctgttcatgc 180
cagaccctac ttaacgtctc actgaacgac ttcaccagct ttgaagttga attctgcagc 240
actgcctcat gaagctgtgt ccatacctgc tgacgtttct cttcactgcg cgagagagct 300
gtgtggattg cgtctgcaca ctggtggtag tccaaggtg tgacgagtag ggcattggtg 360
ccgaataccg atgcgtacc ggtgaattcg ctgagaataa gtgatccgta tctttgggcg 420
ccgtattttc catcctgaca gtaaacaac tcattggctcg taagattcat accttcacgt 480
agactagtaa tcatcatcgc atctgctaca gaaatcaaag cgaggatttg cgggaaggca 540
aggctctgct tcaagaatac cagaggttgg tgtgcaagcg tcgagtgcgt agaattgac 600
cgcatgacaa tgcggaaat catggcctcc agctccggct gttccgctcg gctttagacc 660
acctgaatca ataccacctt ttcgcgccac tcggggtgag tgttgagaaa gagctcatag 720
ctgagtaact tctgccggat gccgcgcacc tggatcaatct tgctcgcgagc cacaatgagc 780
ctctttcctg cataacgac ggaaatcgtc ttgatccact gctcgacatc tgccgcttta 840
cggcgcttat cccaagagag ggggtcgata ccgattggga actttctcac gttcacgaat 900
cggctctcca gctgaagccc gtcattcgta gcttcaacac tgaggatacg gctgcatgct 960
tgcaggaaat ggccacaata gtcttcgctc tgtaaccccc ctaggttcgc cccaagcagt 1020
ccctcaagta gctccttgcg tgggtgcgagg caccggaaca cctcagagga cgggaaagca 1080
acatgaagga aaaagccgat ctgcgcgctc gggagaagtt tccgtagcat cgccggcaca 1140
aggagcaagt gatagtcttg gaccatattg gtatcgcccc gcctccagtt tcgggcaatt 1200
cgctccgcaa agacctggtt gagcttcaca tagtaaacc acgaatggct ctcatatgcc 1260
ttgctcttcg gggtatcagg gatttgataa tgaaacacgg gccagaggat tgtcttgag 1320
aaatgtgtgt aatgaccgtc gaaatcgtg tctactgacat cgaccattag acaatcgtat 1380
tctccctcca gcttctcgga tctcgtggct tttgttgact ccgtcaaggc atcagtcggc 1440
ataccagcg taccaacca aacctgtct tcaagctgcc cggctctccg cggggcgcg 1500
acggcggtgc gtaagccgcc attgcctgt tcagccgttg tgatcttcca ttcgttctcg 1560

gagaatgagg gcttttcggtt atgggtacgc ccagaggggtt ttctgaagtg ctttttcggc 1620
ggcaccgatg acggggccatc cacttttggg agggagtccg tcgacaaatt cagtggctct 1680
tggtgtctga ggattgaggg ggaagccaga aacgctgatt gtggcttggg ttggttgagt 1740
cacggtccgt acgccccggg cgggtgaatg cgctacactt tccgtcaagt gttaatagtc 1800
gtagccattg tcgggggttag gaacggggta ttcagaccgg tttgggtcaa cagccttggt 1860
tggatcggaa gtgaagatgc gctcatggtc ggtggtcgcg cccggagtaa gaccaacatt 1920
gggtgtctta ttccgcttct caaacaagct gactgcaggg tttggcgtgg ttgacacgga 1980
ctccggagcc tgatgctgag acagaggggt tgaggggaagg gcttgagact cctctggagg 2040
gcggaagctg actgtgtagg ggagaaacct ggttgcatta gcagggtgga attcacgagc 2100
aagcagatgg tgggggttag tacagagaag ctatgtagac ggtcatcttg tggaaaggag 2160
acggcacaag tgaagataga agaacgaaaa ggtaggactg ggtcaaagac gggtagagat 2220
tgtgttctcc cttaaagggt gtaagagttg tacggagtac agaaagaaat ggcaagaga 2280
tgattctagt tttctgcagt aaaaggtcgg gctgtcacca ctcatcaata cgtcattgaa 2340
acgtccagcc cacctcactg ggctaagaaa ctggatccag ccgggctgga ccaacttctt 2400
ctgcctttta tctgcttgg taaagaatcc atgaataaga cgcgaaagca tgcacttact 2460
cagtcacga ctcttacgaa gtaattaagt ttggttctat ctttttgcta tat 2513

<210> 3627
<211> 3484
<212> DNA
<213> *Aspergillus nidulans*

<400> 3627
gtgtgtctgc gccgtgctat gttagtgaat tggcacatcc ggcgtggagg tatgcaccga 60
ttttcgaagg cctaagcacg aaggagatac tgacggttgt ttctagaggc acaattacgg 120
ggctctataa ctgcacctgg tgagttacgc acattccccg cctggctctt ctgggcctat 180
cctgaccccc ttctgacccc tatgctctcc ccatggctgg tatttctatt ctgagactct 240
cccaataggt acatcggctc catcctcgct agctgggttg ttacggctg ctcacagctc 300
gacaatgcca actccttccg catcccgatc tggtgccagc tgatatcgtc cgcccttgct 360
gtgctcggag tctggtttat ccccgagtcc cctcgctggc tgatggcgca ggaccgtgca 420

gaagacgccg caaagattct taccagatac cacggggaga acgaccccga tcacctctc 480
 gtgcatctcc agctcaaaga gatgcagcag agcatcgcca ccgatgcatc agacaagaaa 540
 tgggtgggact accgcgagct ctacaccggc cactctgcac gtcgcaggct catctgcgtg 600
 ctcgcatgg cctgttttgg ccagatctcc ggcaacagcg tcaccagcta ctacctcccg 660
 gtcatgctgg agaacgccgg tattgtcagc gagagcagga aactcctctt caacggcatc 720
 tatccccac tctcgctcat cggggctgtc gtcggcgccc gcatgacaga caccatcggc 780
 cgacgccgc tactcatcta ctccctctc ttctgctctg tcgccttcgc catcatcacc 840
 ggaacctcga agctggcaac cgacgatccc accaacaccg ccgctgccaa caccacaatc 900
 gccttcatct acctttttgg catcgtcttc tcttttggct ggaccccgct tcagtcaatg 960
 tacatcgccg agaccctcac aacaacgacc cgcgccaggg caccgcagtg gggaatctgg 1020
 cctcgccat cgcgagcaag atcatccagt acagctctgg cccggcttctc aaggatattc 1080
 agtactactt ttacctcgtc tttgtgttct gggacctgat tgagatcgtc attatgtact 1140
 tctactttcc tgagacccaa gaccgcacgc tcgaggagct ggaagaagtc ttttcggccc 1200
 cgaatccggt caagaggagt cttgtcaaga gagatgcggc gacggtgttg aatacgaatg 1260
 aggtggagca gcgggaattg gtgagtaaag aggcacaggt gtagccatag gcctgtaggt 1320
 gactcggggt aacggtcttg aagacatagg cagggttgac agatttactt ggagttatac 1380
 actcaacaat tagcaggttt acatacctgc tactatgggc actacttatt ctcgtcggtc 1440
 agagtctctg tggcagtcctc tcagtagtgc aaacgatctt cgacctgcat gaatcggtgc 1500
 atagaccaac ctcaagttaac gagccttggg ctttgtaggg ccggcaaagt ctgacttgcc 1560
 tccacatgtt tcgcgcttag accggctaga taggatgacc tgcgtttgtt attgcctgac 1620
 cctatTTTTg atatgatata tagttccttc tgtgcaacgc ttgcacttg tttgcatgct 1680
 tacttgggag gaactctcca atatttctgc cactgataca gaagctctac agaaagaagc 1740
 atattgggaa ctatgttcga gatcgtcttt ggccgaatct cacgaccgta taatatgcca 1800
 ctgctccagt taccttcccc taaagtgaag gcctctgaag tcagctgacc attttgtcag 1860
 tgttgtgaat gctcgaaggg gaaagggcag aaggaagctg tatcaactac acgaacgtag 1920
 cctactaagg ataaattgtc atatgacgat tgattatcta gatgacgata gttgtctctc 1980
 ttcttcaatg tgtacaactc ttcgagggat caggccaggg gccagaaatc atgcaatata 2040

gattatgtgg cacgtgacat gaggtcatt ggcaācaagt atactgtcag aacttagctc 2100
tccaaggagg gttagccctt tttggctgag tgggaagttc gatactcatc gtgtacacct 2160
ggtgtacacg atgaaggtea catgaccttt cgtatcagtc agcagaagca acgctgacaa 2220
atctgacggt cgccgagtca cgttaaataa taaaaccaa ccaaaccaaa ccaaactctgg 2280
cgttcacagt ctgagcttgt tttgctggca acattcctcc agcaatcaat cgggtgcta 2340
gcagaagcta gagaataagt tcagagaata aacagcaccg agtatgccta atgctccact 2400
acggcggaag agagccgcca gaaagggtggc tccatggccc ggcagcgtcc cacgcgcctt 2460
gcggaaggcc cggccgagag cacgagtcac gagcaaagcg tcgaaaatga tcctgtcaga 2520
ctgactgaag gaccagtgga gcctatgtct gccgttgaac ggagacagga cgtttatgag 2580
taagtagttt cactaatccc ggtccgcacg cagcataagg ggaatatcgg tatatcaaca 2640
cgctcctgca ggactggggc gcccgcatga ccctctctgc ttcgaatgcc tcagaccaa 2700
tgatctgatg tcctgcaata catgtaggcg atcttaccac gtgaggtgca tgccgctgga 2760
cgggcgggtc acgtccatac cagatctttt aaaccctggc attgtcccat ctgtttggcg 2820
cgcggtgga aagacgttgc acgccggccc aagttaggac cagaagactt cccaatcttg 2880
tccgctaccc ttggagcccg caggaatata cggcccatcc agaagcgccg cgggatcgac 2940
gctggacagc tgctgtgtgc ttcaacatat gaaaacggat gctgctgccc tggcccggga 3000
atcagcacia gcggcgactc cgaatgtaga tgcgctgca cggttgcctg ttgggactga 3060
agaagaccga aacagcatgg ctgtattttc cgccaacgac attggagggg aagcttctac 3120
cctccagaac cagtaccctc ctacaaaggc tgcttctgct tctccttctg cttgtggctc 3180
tggaatttg aagacggcgt cattaccatc atcgtcatca tctctacgga aatcccgtt 3240
caacacgtta tccgacgaag tcacctctgc gttttccgtc gtctaccgag aactcgaaga 3300
ggttccttta ttgcgtaaaa ctgtggcaga tctcgagcag aagatggctg gtcttcgcca 3360
ggagctgagc atctaccaga aacgagattt ctctgagcag gaggatggga ggcggtaatg 3420
atataaaggg cctcacagca agaaagaatg atcttgagcg tgagaatgca gacttcgggc 3480
acag 3484

<210> 3628
<211> 7358
<212> DNA

<213> Aspergillus nidulans

<223> unsure at all n locations

<400> 3628

acctatctga cagcgaagag gaagaggagg ccgccgtgga gtttgagac ttgctgcgga 60
atattcttct gaggaccagc gagaatccag acgaattgca cgcatacgtc aactacgctt 120
ctgggtatga gggaccccg ccatgggtatg ggtacgagcc gtggaggctt gaaaagttgc 180
aggaagtga gaggaggtag gaccgcagc gnaaattctc gttctatgcg ccaattcctc 240
tatcataaaa tgttgaatag ggtgtctccc ttccattact atatatcatt agtcctatct 300
ttaattgttc ggtggaggga cactgtggac gtacgtgata gatatagtat gtgtaggaca 360
agaaaggata aattataaat ttctgtggc gccaggaact tcccgcataa taatttgc 420
ccctcccttc catactttcc agaaccagc aaccttacca acaaaccgc ttagcccttc 480
tgccgccgtc tgctcgaatc gccgagtacc tcgttcgtcg aggtaaaatt ccggctccca 540
tcatgtctct tgtcccgctc gacaccagc tgaaggttcc tcctccggac cctgttcagg 600
aaccaccaa ggtggctatc acgccatgtg agggactgcc ggtacgctat tatttcgaag 660
gaggactgcg tcgcgtgtat ccgtaccact acacctaca tacatactgc aaggaacgct 720
ggcgaaacag ggagttgata gacatcttca cctctgaatt ccgcgaccgc gaaccggct 780
actacgtacg ttcacacca cagaaaatcc tccaacatc cgctgacatt tcatgataaa 840
ctagaaaaaa gccctcgaat gcggcaacgt ctgtgtgaac ggtaagccc cgggccgca 900
caccgttctc aaaaatggcg aggtcatctc gcacaccctc caccggcacg aacccccgt 960
aaccggaaat gagattggca tcatacatga aaccgacgat ttactgggta tcgacaaacc 1020
agcgggcgtt cccgtgcaat caacaggagc gtaccactac aacagcgtga tggagatctt 1080
gcggatccag aacggaggcg catatgtgcc acgcccttgt aaccgcttgg accggctgac 1140
gagcgggtgc atgtttgtgg gcaagacagc gcagggggcg gatcggtatga ctgtgaaatt 1200
aaaagaacgc accgtgcaga aggagtatgt tgcgcgcgtg aaggggcggt tccccgatgg 1260
tgttgttgtt gtcgaccagc cgattatgag tgtcagtcca aaggttggac tgaaccgggt 1320
cagagcaacg ggcaaagaag ccaagacgaa gttcaggcgg ttggcgtatt atccccgcc 1380
gtctcctact acatctactt ccgacgaggg tgagaatgct agaccagcaa caccgcccc 1440
ttcgtacgtc aacgaaagcg agggctacag tattgtccac tgtttccgc ttactggccg 1500

cacgcaccaa atccgcgtgc atctacagtt tctgggacac ccgatcagca acgacccgat 1560
ttacagcaat agacgcgtgt tcgggcctga tctgggtaag aatgactcgt ctgcggatct 1620
ggacgaggaa attatcgatc ggctgatggc gatggggcgt acggaggtcc cggatatagg 1680
gcccgttgaa acgccgaaac caaagccagc gctgtccaca aaaccaccct cagagcaacc 1740
gtcaggagag caaagcacga gctcagacaa aggcgaggac aaggaccagg tctcctaccg 1800
aacgcacttc acaacacctc ctcttctccc gcctgggacc tcagcatccg ttgtcgaagc 1860
aataatgaca aaagagcacg aggcagccgt ggccgaatac caaaaacgca agggtgaaaag 1920
actttccggc gagaagtgcg acgtatgcgg gacagagctg tataccgatc caggtgtgca 1980
tgagctgggt atatttttac atgcggttgc gtactcggat gccacggcg aatggagcta 2040
ccgcagtaag atgccagtt gggcacgccc cccaagggc gtcgagggac cgacggaggt 2100
gccgaagtgg gttgaggagg aagaagggaa ggaagtcgtt gttggcgatg gggtagtgcc 2160
ggacatcgga gttgatgagg gggatgttgc gaagaatgag aaaaggaagg ggaagcaggg 2220
tgctactgcc ctggttgagg ggggtggcat gattgatatc tcggcggcaa ggcaggcgga 2280
gtctgaagat gttgccacag ctgctgccgg gactgcttga acgtcagtta tgggtgactg 2340
ttgatgggcg aaggctgaga gaaaaagcgc ttgtttggtt gcgtgcatgt tgcataaatt 2400
gggagttgaa ttgggctcat ttctgctaga cgttttcgta tactccggat actgattgga 2460
atatacccag aatcagacct tagataatag actacgctgt caatccaatg tactgtctga 2520
gagcaccata aacgaggaat tccatcactc aacaaccttc aagtcttgac accaatagaa 2580
cagacagagc aagtctcaca ctatccctta agcacgcaag caagcaaaaa taaaccgaga 2640
agaccgcgaa tccattcaac aactcatttg gtatttaaat ggatagatgg atggtaggggt 2700
atgtataaca aaatcgaccc gtgccatatt ccaccccttg tccttgttcg atggacttcc 2760
tccagcccag ctacagcccag tccattcgtc cgcgaccgca accgtaaccg taccgcagag 2820
cccgcgcttt atcaattcat tcccagaatc attttcgctt tttttcgttt cagtcaatcg 2880
caacgcaaac catttaagcc tcagtagtga cacggccacg ggggttggtg accttgacac 2940
cgagggcctt ggccttggcg atgatgtcga cgcgcttgcg ggaagagacg gcggaggcga 3000
tcctagagaa gagcatatta gtctccaat cgagttgatc aaattcatag gtttaggatt 3060
gcgggacgca ctacgcagcg taggtgcggg tgtgcatgag gaggagctcg acgtccttaa 3120

cgttgtgaac gaggaagacc ttgtggccgg agggcatcat gtgcttggtc ttcttgttgc 3180
 taccgtaacc gatctattca ggtatcaatt agtctcgctg ttcattcttt tcatgtttcg 3240
 atttgaatcg aactcgaaag cgtcttgttg cgggggacgc acagagggca tgggaatgtt 3300
 cgacttgaag cgtctgcgga caagggttgc gataccctta ggcttgcgcc atgactccgg 3360
 cacgcacttg aagcggtcgg actggtggcg ggtgaagcgc ttggtgccta tatagatgat 3420
 cagtcagact tgatcatata aacgtgtggt tgacccgagt cgctcgtcaa ttatatcctc 3480
 cattccattt tcaaacaaaa ctgatcgggc gatcaagttt ttccagtaag cctcctcttt 3540
 tcgtcttgtg ctattttgca atcctcctct tccactctca aggcagggca gcgggtgata 3600
 ggtggtggtg acatacgctt cttgacgata gggacgtgct tcttagcgag gaccatcttc 3660
 acgcaattgt tagcatcaat gaacctcttg aaagagcaga gtcaagcaat gaatatacct 3720
 tgtcgtttgt cccgttggcg ctggagttgt cgaacggtcg aaatcggctc cgaaatttcg 3780
 cgctgaggtt tggccgcccg agactgccag tgaccccggt agtgcccttt gctaagcgag 3840
 cggaaagacc tgtgggcacg tgataggggt actgggccct gccctacgac tttcttattt 3900
 tgacttagat cattcatttt aactagccta gccttttata gaactatact ttcgatcccc 3960
 gtcatgaaga tcatgttcag tcttgcaact tcaaagtctt ccgtccacca tctcgcacc 4020
 ttctaaacat catctccaga acctccagat ccgccaacgc ctgcgtccggc actaatttct 4080
 tgttcaactc tccattaacg atcgactctc caaatgcttt gacttctctt ttgacaccga 4140
 ccccttcaaa agggatttcg gttgcaacac cgttaacggc caattgatca tcaaccagcg 4200
 acaccacacc cttctcacac gtaaaactcca gcacaaagct cttgaattca gatccaaatg 4260
 aaaggctgaa tacacccgcg gcgccggatg ccgtcgtcag cagcgcgtcg accgtatcta 4320
 taggcggcag gtgttctgt agttggcttg tctgcgcggt cagactttta agactgttct 4380
 ttccgcgacc aaggatgagc cgaacaccag ccacagtatg gatgccgcca tcgaggagaa 4440
 atccaccttg atattctggg attttacgcc aggggtgtgtc tatacctgtt agcgtgtcgc 4500
 ctgcacgaat gtcattgtag actgtagctg cgacagagaa tgggacctac taaaatactt 4560
 cccctccgtc ccaaccttat ttgcacaaac gactcggaaa gtcttcacgc cccccaattt 4620
 ctgcacctcc tctgtgtct tcagccactt ccgaatgaag cggaagtttt ccgcgacacc 4680
 ccaaaacgtc ttggacttgt caacgttggc gttgtcattg taccatgcca tcaggctcctg 4740

cgcggtagca aggtccttgg cgatcggttt ttccgacaaa acgtgcttct tagcagccag 4800
 ggcttccttg atatatgccg gttgcgcgac gatggggagg ctaccaacgt cagacaaaagt 4860
 cagcgcttcc tctaaccag atataagacc ctctgggtc agcatttcaa catcgtagac 4920
 ccttagggac aatctagget atgacttggg cgtagagcc tgggacaaca ggttatacgc 4980
 acgcaaaaat aacagctccg atatcttgtc ttgcaaggag atcttggtta ctcttccctg 5040
 cgctgagtc atccgaatac agatcaacac cctcaaggcc ttctgccaga ccctgcgcgg 5100
 atttgagcga gcgcgagtat atggctttca gcgagaacat cggcgcttct ttaattgctg 5160
 gctggattcg aaatcgtagg tattcagtag caagtcaatg cgctggtcaa ttcgtgagaa 5220
 tgacagccca ttcagctggg gcattgtaag gtgacgtacg agatgttgct cacgggcaaa 5280
 gatgcctaata atgttgtagg tttcatatat agcgactgaa aggttaaaag aaccaaccgc 5340
 tgccaatgat agcgacgcca atagtcattt tgctcagttc ttgaaattat cttactagat 5400
 gagtgagaag gtatccaaat gaggtttcct tgatctaata tgttggcggg cggagatata 5460
 tatctgatga gggccaaggg gggggttagc gtcacatggt attcaaaca ggtccaggct 5520
 tctgaccctg cgtattgtcg gctgaaccgg atctcgctcc gctccaaagt aggttaagact 5580
 atggcaaatc cccgaaacct gtccggatgc attggggcag aatagcgata gctcattagc 5640
 cccgttgctt ttggggccga attgtactca cctaaatatg cacgtcatcg gtatcgcaca 5700
 gtcgcttctc tcccgcactg accagtcgat aattctagag tccattctct atcatgcctt 5760
 caactactag atcatggcat ctgcatcaac ttgcaatgct tcttgctatc atcatactgg 5820
 ttgagcggtt ctacagcaga tgagatccta gcctttcgct ctaccagggc ccgctatgta 5880
 caactcttga aaggcaatgt catgctccat acttcaaacc cttctgatct cgatactaag 5940
 gacgtcgcaa accaggttga aaagcatata ctgcggtccg aagacgacga gcccatagtg 6000
 tttagggatt gttgccagag aactggccct tgctcgagc gcagtgcacc tggacggcta 6060
 tgtgcctgac tgcgtaccaa cagtccttga caaatacagt tcatgacaaa atatgggggtt 6120
 tcaaagtctg ctacaaccgc tcaagtggcc attatcgaga tgcagatgga aagcctttgg 6180
 tgcggtgcgc tagacatctt gtgccgtctt cgttgtcagc cttgtcactg cctctttatc 6240
 ggtatcctac gtagtttgct ccagtgcaaa ctcagcaata tctatagcgg caagaacact 6300
 aagaatgggc tagcgggctg attgtactga gtgagcacc aagcattctg tctgcgactg 6360

cctcgataag ctctccccgc aagcaacagc gcccgcacca gtgcgtccct tatatgtagg 6420
ctgacatttc atcctaggat agaccagaaa ttgctacttt tctgatctac gtccaagtgc 6480
attaaggtca aatcaagcgc gtagggaatg ctttccccct ggcttgggac ctctacaag 6540
cggtagccgc gcattcttat gctcgggttg tataccccgc aaaacctttc aatgcgaagg 6600
ggacagccac ccgttctttg caagcttccg tggccgcaca aggtcgtaac atttgaagcc 6660
ttgccgcgcg agtatgtaag gccctgggta aactaggggc ggtgagagtg tatgattagc 6720
ataagctatt gtcagtaacc aataatatac catcatagga gaatcagtaa atgtgctttg 6780
catgtgtggc tggcttgaac tacacagtag atgcgcaagg aggagtttct taagtatgag 6840
gctggagacg cttgggcagg ctagcatagt atcaagatcc aacaatgcga gctgtgcaga 6900
agacaaggat atgattcgtc gtacactgcg tgatttcata tgatttttat ggtcttttaa 6960
atcgtgaatt tccaggacat caatctagac ctttgataat gacccatcac aaatggaggg 7020
aagtcatggt ggggtgcacg tgttcgttgt ggaggactaa atagccgttg gacaacttgg 7080
gaggttagac agcgacacct cgaacaaatt cccagccagg aatgggatcg aaacgatcga 7140
caatcatacc tgaagatctc cagacattga gctactcct tctacgccg agacgaagat 7200
gccagcgcac ccctgactcg cactgaaacc ctgacagaga gactattgac gctgggtggct 7260
ataattaggc tgtccctgcg ttctgggtcg tgttcagct tcggtcacag gctgtccttt 7320
gattctgctc cttaaatect tcacctccac ctgcgcac 7358

<210> 3629
<211> 4517
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 3629

gcagcgatat ttggtccttc ggggtgcatta tggttcgagt ccttgccttc aagtttagatg 60
gagtgcgcgg tctccaggag ttggatagac ttcgtgcaaa ggacgatgat ggcgtcacta 120
tttattccaa tgaccacttc aacagagggg agcctccaat attgaaccca catatcgcca 180
actggatcaa taatctgcca gtcaggtatc caggttacia tggcgagtgc ctgcaagatt 240
gtgctgctgt gcttcggcgt actttggcga tcgacaaaca cgatcgacca aaggcgagtg 300

aagttcaata cttactagga gagctcagat ccctcttcca tacatcaatg cataccccct 360
cggagtcgc ctcgtcggta ccctcacttg gaacaccaag gtcgtcagta actgatctcg 420
cacctccgtc aagcgtaggc ggtgctctcc gggtaggagga tcttttcaat gcaatcaggg 480
gctccaatct gcgtaaagtt gaggcattgc ttgcagaagg cgtcgatata gaaaagcacg 540
atgaccacgg tgatacacca ctgggggtag ctgctagggtt gggacatggg ccgattgtcc 600
agtgtttgtt ggaagcgagg gcgcaagtc atgcaaggtc tgcaggaggc aaaacggctt 660
tgatgcttgc ctcgtatgca ggcttcgagg gtgttggtga actgcttctt caccataacg 720
cagattgtca agaatactcc aatgaaggac tgacttgtct ccactacgca acctttcggc 780
acgccagcgc aggactcatc cggtcctga ctcaacactt caagcctgtt gacatcccaa 840
cgagaagtc caccgaggaa actccactag tgagcttgct caagaactat gttcccagca 900
ccgcatggga agataaggtc cgcgctctaa tatccgctgg cgagacgtg aacgcaactg 960
acaagtttgg aaacaaaccg atcgactata cagggggagt caggtcagaa gcagctcttg 1020
agatgcttca agtcccgtt ggtccacccc gctcaattcg gtcaagtatt gatagcggac 1080
aatcacatcg ttcctttagc cttcgctggc gaagatcaaa aggttgagct aatttttcaa 1140
cagcgctttg attctgattt gagcgccacc cacaactat agactacaat gttacatcac 1200
catgtgcgca cgatgaatgg ggttcaatct ccgtccgccc cgattcgaga acccacagaa 1260
ggcgaggatt gtcaacctgg atctcgttat gtttgaggaa agtctgcaa attggtctgc 1320
agaaaggaag cggagctgct acctagcgt gaactgtttc ttgttatcag gactagtctg 1380
aagattgcat cgtggtcgga gctccagcga tagtgtcaag atatgtcccg ggggcttctg 1440
ataattagga ggttgggagg actgaagaag ggcgaatggt aatttgtgtg taattggggg 1500
tatgatgagg tttgagctcg ttaggcagtc tggcctagga ggaccgactt gtcgggacct 1560
ggaaaggcgc cgtgaagcgc aagcaacggg gtgtgaggga ggacagaggt gggtaggaa 1620
tcaagggacg tccgacgttg gactgcgtgg ccagcgcaac aaggaagatg atgatgtgat 1680
tggttattgg aggcgtattg gcgcatgctg gaggaacatc taaggcacac ggcccgaatt 1740
cttacaatgg gggcggatta cttacaaatg gctaacgtaa agattcatac taatataata 1800
gtagttgcct atctttaaca agcaaataat cgtcgagata tgaatactgc tcaatccccg 1860
gctctgtgca atcgggccat tccaggtgta cgtggaccag cagaattgcc tgtagtgtct 1920

gagcactatc aataaacaga gtagccgggc tgcaaggcga ggtaagaaac cttttagaca 1980
tccaaactga ttatggcttt acatcagagg taatccttcg tcctagcctc acaaaactcc 2040
caaaactcct ttgctctccc cgatccacca tcctctgcc acttcatcgc gctcaataat 2100
gcgtccgcc cctgatcatg gattcggcca aacgggatga catagcagcc attgttttgc 2160
aacgatatcg caggactaaa cccagcatac agctctgtat gtgcagccaa gcccgtctcg 2220
tgcagcaagg gataagagag tatcttcac agcctcgcgt ccttgagaag attcgtgttt 2280
gctgctccgg gggtctacgc aacgctgacg atcccacggg acccatatcg tcgggcgaac 2340
tcggcagaca ggagccagtt tcctgtcttg gagtttacgt agttgcggac attgtcctta 2400
ggtagggctg taagctcaga catgatgatt cttcatccg gcgaggagag ctacgcgact 2460
tgactgcttg tccaaattac tctcactgac ccaggagata cggacgaggc aaccgccgcg 2520
tcgagtaaag ggagtaacat ctgcgtgaag aggaaggggc cgaagcagtt gacggctagc 2580
tgtagctcat ggcttgttt ggaaacgcta cccaagggcg gttgggagac gccggcattg 2640
ttccacagga tatccagttt cgattcttgt gctttgaagg cttctaccga agccttgatg 2700
ctccttagat catcaagctc gaggatgata aagtccagct caccatgatg attaggtgca 2760
gaggcttga tttcttggat cgcttttct gctttctctt cgctgcgggc ggtaatgtag 2820
accttgccgc cgtggcaata gagaatcttg gcgagttcca acccaattcc agacgtgccg 2880
ccagtgatga ggaacacttt gccttgctgt tccgagaggt tctcgctggt gaaggttggg 2940
tgggggggaa agaactggga gaactgggcg cccatctctc gagctgttgc aggggctaga 3000
aaggagtgt aaaagggag gggggtctcc aagtgagcgg tgaaagataa tgaccaaaaga 3060
aagaaaggga gataaggggg gatgtaagag ggtaaggctt gagctgatgc cactaacgat 3120
tccacttctt tgtctaagcc aagaaaagac agcgcggtta cgagctagcc tgccaaagaa 3180
ccggtcttac attcttaagc tgaagcagac gagggctttg taagacaatc tttgcaatct 3240
cggccaataa tactgaaccg agcttgacta atacactctg ctgcacccat cacgggtgctc 3300
tgtacttcta gctaacgtga taccgcgggc aatagatgct ttacaccaga ttcccagtat 3360
gactcgctt gacagcctcc aggtaggtct tcagatcatc cgaaagccac cagcagcgct 3420
tctcttgctc gactacctga aagtactgct taatatagta tctgatctgc tcggcgacga 3480
cccttttggc ctnttctctg ccaaccgact gtcctgcat gatcacccaa actgcattat 3540

acacatagtc aatccccaac cgctgagcct cctcgagtt cttgttccac gtgtagttgt 3600
 cattcgtag actaaccgag gcatatccag gccgggcaag tttcaagcag agctccagtt 3660
 cctcggtgag aatgctaag gccatggcaa aggtcagttg tccgaaccaa atcaattccc 3720
 cagcatcgat gacccggctc gggagatacg cctccagttg gcgcaatggc cgtgagcgag 3780
 ggtgggctgc cagctgcagg aacctgggtc aagccttctc cgtcggtgct gcgcgctcag 3840
 gatcaatagc catcatctag gtgatgactt gttcttgcaa cttctttgct tgcatacgag 3900
 gcctgctagc gcccgcttta ctaaagcatt cggccagagt atccgaattt cgggtaagcg 3960
 gtgcatgagc ccgtagctta agctgttctc tcacgtcaat cagagactgc gaactcaaaa 4020
 cgtccaatac tcacgggtact ggggtgattca taaaggcagt aaataccgga gagactcttt 4080
 aataatggcc tgcagatagg taaatctctc gagctcagcc cactcggcac acgctctggc 4140
 caaccgcca tagtctccca gagttcatcg cggaggctcg agcgaatata cgggctatcg 4200
 gcgatgtaga acgaggcgaa agcgattgtt cgtgcggtgc tgctgtgccc ccaccaagga 4260
 ggacttgggc ttcttttgag aggcgctcgg gcgaacggtc agactcgggc atgtcgctct 4320
 gggctacatg gggaaagagc gaggttacgg gcttgctgtt gttgtgcgtt tggctgaaga 4380
 ttctgtctat attttcccg gcaacttgga tagtccaagg tgaatattac tagcattgtc 4440
 tatcctgtca gaatgggtcc gccgctagga acgtgcgcac tcgcttgaat tcattaaaga 4500
 cttgaccttg gggaaag 4517

<210> 3630
 <211> 3194
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3630

ggggagtgag aacaggttga tgctgtttat ccactgtcgc tcctaactcc tgccgctcaa 60
 tgtcacgctg aggggtcactc tcacgttccc tgggaaccat ctctcctgg cgttgtcttt 120
 caatgatctc ccgatctctg gaatctcgct cgcgggtcctg gttcatcgac tgaggagaag 180
 gatgttgcat agcctggcca attcctggta gcgaatgtcc gccaccgtgt gcgggagcag 240
 gagcatgctg gccgtacgat ggtgggtgggt gcgggttacc gtgagtctgg ctcaattctg 300
 ccaatcccg cagcgaatgt ccaccgctt gaccggccga gtggtagggt gctaattgagg 360

cacgcatgtc agttcagaac acacataaca agaattatat ttccaaacat gcaggggcat 420
tcctaaccgg ctgggggtgg gaggaccggc cctgacggct gcgaagacgg gccttgctgg 480
ggggtcgggt tctgactgca aacagcggga taacgtatta gcttctgtga ctagatttta 540
aagaaggcag ccccatata gcatgacata cctgaacgtg cccaacggtc gaggtgggtg 600
attcatttga tccatggcag ggtgcgacgg gccacctggg tgccaattat cgttcccaga 660
attcatgctt ttcggccaac gaaagtgccg taaacgtcta gaggcagata gcggcctcca 720
agatactgag atatcgtaca gtcagtgtag aaaagaggta ggaagctatt gacgacccca 780
gatcaagctg caagcttctt attccttttc gcacggatca gtttctcttc cactcatct 840
cacagaaaca tcaactggatt aaatctgcc aaccgaggag atgcgaatcc agacaaaatg 900
aagatcaaga aatatagagc gaaagaactt cagcagcacg aaaggagaca agaaagtata 960
accgaatgac caagccagca acagcagacg gattagcgac gatggtttgc gcgcgaccga 1020
tcacggatgg tctccagaga gaaggcggag agagtttggc cgcactagtc ttggtatggc 1080
ttagtggtg ataacggaac gggaattctt ccggtccacc gaccaatgta ataacggtgc 1140
ccaagaatca tacgtgcgc cagtcgtgat tggctgaata ccgcgagaat ggagcctgag 1200
gtttccgacg tcatcaggac tggactggcc tgagacgggg ttaatatagc agtaaagagc 1260
atttaaaggg tattgagagc agatagatgc gccagttaca tgcaccagcg gcaagatcac 1320
ggaagtaact gacatgaatt tattatctac ttgagcaacg ctaagcggac accaatacca 1380
agtacgtcct agcccttggg ctatcggatc cgtctctatc tcgtccactg cgacaaagtc 1440
gtgggagaga aacttgtctt gcggtgcact aacgtactgc cgcagtagac gcaccgaaat 1500
tgaatacagg ctttaactaa gagagaagga aatggaacat tctggggcag ctgcctgctt 1560
ctcgtctat gtgaacccca gtataaacgc cctccaccct cctccgtgaa gaaaccatca 1620
aaatcaccaa acttatccgg gagcaatagt agaaagtgat atctcatagt agtcggtagc 1680
gatcgagttt ttgaaagacg gggaagaggc acgcaacctg actccaataa cgtaacgcgg 1740
ataacaaaga tagtgttcgg aatcgagact ggtaacctgg agatggtaaa ggtgcctttc 1800
ccgtgcccgt gtcgttcacg ataaccccg cactgtgtgc gccataacac tgcgattgcg 1860
agtactttag ctatctctag agagcagaga agacaataac ttgattgggt aaagttagct 1920
tcctctcgca gaccgaatat ggcggtaa at gctactcacg ttgcttgggt cagcaatggc 1980

aatgctatcc tcaaacggat gccagctcat gtgcaggatc ttcttgtaa aatcaatttg 2040
atctgcatct gtctccttct tcatgcggt gccaggacca gcagggctgc tggtccttga 2100
gttactcttc ttcccattgg cacccttatt catcggcgtt ggtacgccga ctttcttcgc 2160
cttgaacgca gacttgtcag cctgcaaaac aatctcggtt tccttcgcgg gatcggtagg 2220
ataaatcatg aaattattgt tgtaactgcc tgtcataacg ttctctgcat cgcccgaata 2280
gaccacctcg aatttatcaa agatgctgtc gttctcgtac gtatcgcata gacgaggtcg 2340
gagatgttca tgaatgggga ttgtcttcac gggttgtcgc tccatgttga cgtcccaaat 2400
cttgacggtg aggtattctc gtgatacaat gtaccggcca tcgtgagaga atcttacgtc 2460
agatatcggg gaaatgattt cggagaagaa agaacgggaa gaggcgtctt cttcttgctc 2520
aaacactaca taaggcaagt tagaacttga ttcgaaagtg tcacgagaag aggacaacga 2580
tgaaaaacac atacgcttgt ggtgggtatc acaaagagcc cgttgctgca tgtcggcaag 2640
cttgatggtc ccttttgagc tcgctacat gaaccagtta cagctttag gatgaaactc 2700
tgccgcggtg atgacttctg taagctcttc catgtttgct ggtttgatgt cgacaatgtt 2760
gaagctctgg tcttgaatat tcaagttcca gaggttgact cgcagatcgt cactgctaata 2820
gaacgtctcc ccgtcactgt tgacagagat gctgttaatg tggatgcat gggcgtagc 2880
gtatgttcgt ctaggtacag ctgcgacgac agtgctcgtg tgtgtcattt gtggaagctt 2940
cagtgtgag gaatctttaa aagacactgg aggcgctctg ggtgcccctc caccaccaac 3000
gcccgagggt gtaagctctg tagagagatt gttttccgca acgactttga gagatttatc 3060
aaacaccttc cacagcttga ttgttttggt attagtcgag agtaggaaat aaaacgctca 3120
aaggcgccgg cgccatttta ttttggtgat attctgttca ttctgtaggg attttaggta 3180
gtccaattct ggcg 3194

<210> 3631
<211> 2591
<212> DNA
<213> Aspergillus nidulans
<400> 3631

aaacacgaac ttcatgactt cgtttgcgtc tccatgagga ccgctacca aagtcagact 60
tccggctttc aggccagcgt ttacttgag cttgacccat tctctcgga catcgacgct 120

ttccgtgata gttttcttct cgtcccaate gatggcattg tagagttcct gccgctgttc 180
 ctcagtcatg gcagtttctt cggagtcctc tttcttagaa ccccatatcc actcggacca 240
 tgtctgctgt cgcggggggt tcttcacgcc tacgttctcc ttccgcaatt gatttctcgc 300
 aagcgagcgc cagaatcgga tatectcata gtcagctttt ctttccaacc ggttgaactc 360
 ttccgtttcc tctgctgata acatctctc ctttttttcc ttcttgaaga gatcaatgta 420
 cgcgatccga tcgtcccttc gttctttgat gtaatcccat gtccaccgcc tgttctatc 480
 atgaatctta ctcagtacgg cttctctgc atacctaaac caggccctgg ggtcctcttt 540
 cggtcgcgac tttggttgaa gtttctata ctctgggtgg cggataaaac agtggaagag 600
 gtcgacaagc atcaatgcat ctcggtattg ctcgctgtct aaaacaaaac cgatctcgtc 660
 aaacaaaagt cgcgcattga cagctgggtg ttcattgattt ccggttttat ccatctctaa 720
 gccagcacgt ccactgacgg gtcgcaggat gaactggttt ccatcttcat tgtctatacc 780
 agacctcaac ctctccagta gttccgcag gtcaattccc tgtgcttctg cgctacatc 840
 agagccccga cctgtgcaa aaagctcggc gtccgtattc caatatacag aaagcgcacc 900
 cagaatagcc atcttgtggg tagtgccgga cgttgactgg atgaaagttg gcctccattc 960
 cgcgtccgtg ctacggcac tcagttcctt caacgtaaag ccgacagcaa acgggtgccc 1020
 tggggagggt atcaggtctt cgtaacgaaa atgcacattc ttgatagaga tctgaagggt 1080
 atcgattact gcagtgacca gactctgct aaagctctgg ttacggcgct gctcttctg 1140
 gtcattcct tcagaattgc gctctttgag aatctctgcg ctctcgatct tgtccatctt 1200
 gatggcattc gctcgctttt cctcttctc cggatcatag tcgatatcct cttttggcgc 1260
 agcgagcagg aatacatctt cgatgtcgac cttgaccggt ttccctcgta ggttcgacca 1320
 gggatttgat agcgtaagtt caccaacatg gccttcgacg acattgagag ggagatgcaa 1380
 ttgatccaga gtttccggc gcagctccag atttcgtaac ttgacatccc cagaccagat 1440
 accgatgttt agctgcttgg cgtcgaaatt cttgacgtag atgccccaaa accggttgag 1500
 caggtttagc accaagcctt ccaacatggt ggcgggctgc ggctgtgacc caagccgggg 1560
 tcgttactgc agcgacttaa tcacgaagga cggttataga gaaactccta tctggctatg 1620
 tgcataacaa ttgtcagtac cgttgggcca agtgccgcgt aaggtgtaga ccagcgaaga 1680
 ggggctgttg cgcaacagta gacagtgaag ttggaatacc tgggtgcacat gggcgagggc 1740

taattgcact cgcaagatat taaaggaagc atccacaaga ttcacgctgg gtaagcatgc 1800
 acgcggttac gatgctgttc cagccgcggg tcgggcgcta gaatagacga gaaggtaatg 1860
 acgttgctgt ccaagacgta gaaggaaggg atagctcggc agaatgagag agtaaaatgg 1920
 cgttccacat caacctaatc ctctaacagc gagtgtatth ctttccagga tctttcaaag 1980
 tccgatgaag gtgaattatt cgttgtgcct ggcgaaaagg ggtgccagct aaagagtgc 2040
 gtcgatgctg cttcaccgcg tgtctgttgt tgctgcttg ttcaggcttt aacgtcgaag 2100
 tccaagaca gttagtcgtc tagggctcaa gacctgtgct gatagcggag gagcttccgg 2160
 cagctaccgt agagtcccg aattgcgtgc ctgatggctc gggacagaat ctgcgggata 2220
 ggcgcttggt gttcgccgga ccagccatta ccgcacctct acataatata acctcgccca 2280
 ttcgctgcct cgaggattga ttgctctcaa cgccagataa tctccgctct ttcgagtcaa 2340
 ctcccatcag cttcaaggta agtacgcggg ttgccgcctt tcctgtcaa atgccgctac 2400
 cccgcgtcaa ttggtgcggg acatcgtggg ccgagctcta tccgggcttt ccaacggcgg 2460
 ttgctaacgt gagtttccgg tgaaaaaatt agctgctcaa acaacaatgc tttaccgaca 2520
 aaccgctgcg cgctctgctc tcagggccgt ctcgagctcc aatgccgccg tggcccgaca 2580
 atcgtctggtg g 2591

<210> 3632
 <211> 2312
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3632

catacattga gatccgatcg tctttacgct gtctagctgg tccggtcgct gaagatggac 60
 agagtcatct aggccttata ctgaattaga ggtgtctctt caagtcatta ctctagtcac 120
 acccatgtag agcccagaaa gagaggacat tacgtaccgc tacagccaaa gataataaga 180
 aagatattgg gaaaaccggt caaattgcct cgggtcttga tcaaaagcga ctgtaatgcc 240
 caacgtacat aaggaagacg cccggcaatc ttccatgaac taacaatgtc aactcgaaaa 300
 cataagagaa agacaacgcc ctcaaaatgc caatcaacat gaggaatgcc gatatgcagt 360
 tgaacaagca acagacactg taccgggata ataagttatt gtgtacatgg ccagggtataa 420
 aaataggcat ggcacaggta ggtagggag aaaggagggt aaaacagagc ccgaacgaag 480

aaccggaag taacaattcg agcagatagg tagagtaggt aagaggcagt agtcgtgcct 540
ataatggaat agaattgagg aaaccaagcc cagtagggca tggctctatgc ataggggtgtg 600
atgaaaatga atggaaaatag cgttcgcggc ttgaggacga ggaaacaagg gcgtcaatag 660
gggtatgcga cgccattgga attgatttgg ttggatttag tcatgaaaag cgtagaaaat 720
aggggagagg gttatggaca aatgattcgg atatccgctc aatctatttc gaaagaccaa 780
gaccaagacc agataacagg gttactggca atgggtattcg tgttgctggg ccagatcttt 840
aagattgacg agttgggtgc aggatcagtg cctggcgatg taggcgtacg cggcgcgat 900
ataggggagc ctgcggggt atagatacgt cgtctaatta tgtcttaatg atatttcaag 960
gtgggtgtgct ggtttgacgg acttccgggt gtgcgggctg gcgccgcatg tacatcgcgt 1020
ccgattctga ctcccgtgcc attggctctg cctgagactg tgagtgttgt tgttggttgt 1080
gttggttgtg ttgctgctgc tgetgctgag ctacaatttc ccgcgcatag aactccacaa 1140
gcatggctcc gtatgcttcc agttcttcca ccggtattga gaggcggaag tcatttaaga 1200
gcagaaattg aagctcgagg tgggttcagct cagctagagg aaggcctccg acctgatgcg 1260
aaagttagct aaagaacaag aacgagcata gggaaagaac taccttagcg tatcgagaat 1320
tgggtgtagaa tacatcagag aagaatttac tagcgcaagt tacgccagca ataactagtc 1380
ggtgaatatt gaagctgtcg acaacaaaaa agtgtgagag atagtctct ccttgcagcg 1440
gattcatggc cggggaaaca ggtgacgtcg atgccgagtc ttgtgctgta atcccagcag 1500
agggcggcgg agtcaccatt ggtgaggtat gagacctctg tgtgatagac gactccgaag 1560
atctaggtct gaatgcgacg tcagattgta aggcatctgt acgattgtag cgaccgcgta 1620
aacggtctaa ttgaccttta ttgaccatct cggtcatgcg atcgaagtac actagtagac 1680
tgagaaagac ttcataggtc gtggggcaat acttgtgaat cctggtgaga tagctcagga 1740
tactaatact cggaacgttt ttgccgtgaa atgcaagcac gctgtgcgct tgttggtca 1800
aattgctcga cccatcgaca gaagggttt gccgatggac ctgctcatga tgagaatcgt 1860
tggtagtggg aatcttggtc agaagccctg caaccatttc gataatgtcc gtgaccggca 1920
tggaactgat ttcgaaactgg cgctcttgag ccagtgccc cgatgctcgg gtcctctgtg 1980
gcgagctag aaactcctcg ctggcgaagc tctggatgtg ggacaggtcg cggatcttaa 2040
tacggctagg agaactggct tctgagcccc ccagcgatcg gagggaccgt aacgttggcc 2100

ttagctgcgg tgaggctggg gaagaatggc tcgccgtatg cgggcctcca aagcctggtg 2160
 gcgcagtgcc cgtctgcccc ccttgacccg atggaaccac agagggcggg ttcattctgcg 2220
 cagatgttgg tataggggtc ggcccaggcg tgactgtcga agattccgaa gaccgcgagc 2280
 taggatgcga ggatgctctg atataagccg ga 2312

<210> 3633
 <211> 7194
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3633

catgttcctt catggctttt ataaggttgg aatttttaggc aggaaaattt gactggtcatt 60
 cctcttcatt aggcctcccc tttcttggtt aagcgtatgg tcatacctta aaccgtggga 120
 tacctttccc accgcaagcc gcaggttaag agatcatgcg tctggcaatt actcaccaca 180
 tcaagcctaa aagggtcccca agttcgtcgc gcgaaaactg cgcgacacta tccttatgct 240
 ccatcacgcc tatccgcaag cccgattttc gtcacctgcc gttgccatat cttttcctct 300
 aaactgccct gcagaaggat acggtagata tggcagtgat gcttctggcc atcccggtgg 360
 atgcgcgcca tggcttgaat gtccgtggca gggttccagt ctacgtcaaa gaggacgagc 420
 cggctggcgc caatcaagtt taaaccggtt cctccggcct ttgcggagag gagaaatgca 480
 aagcaagtgc tcgctgggtg gcgggttaaag tcttcgacga gggctttggc gcttttgccg 540
 aggagtggag ccgtcaaggc ggaggaaagg aagcgagaga gagcttagaa ggttggcgag 600
 aagatccagg gttgaagtgt agtttgagac aagcacaacc ttttcagagg ttgatgtgcg 660
 taggtagtgg agtagctggt ctaggacgcg aatcttagca ctgcatgacg gggagaagtg 720
 acgcagaagg ttaggtggca aggatgacaa gatggcagcg atggtctcgc tcggcttttc 780
 gttggcatcc tttaatgaaa gcagagatgg actattgcac agtttcttga ggatcgtgat 840
 cagctgcaga gcactttcgg aattaccag ggcgccctga aagactggcg aagcaagcac 900
 gttctggtat atcttcgcct gcgtattggt tggtttgcaa aaaagcacat attccgtctt 960
 cggaggcagg taatctgcaa ggatatcggc cgttctccgc agcataaact gagatgttaa 1020
 ttctcggagc tcttcatttc tggcctctcc cttttcaatg tccttctcgg tagcttcagg 1080
 ctgtctactc ctcacgatcg gaccctcgaa ctcttgatg aaggacttga acgatcccag 1140

gacgcctgga ttgacaagat ccaactgcggc aaagaattct ttcaagtcac tttggatagg 1200
tgtacccgag aggattatct tcttcgtagc gtttaatgat tggatagctt gcccgctttt 1260
gttctggagc gttttcaatc gatgcccttc gtctgcaatg acgatatcga caccattacc 1320
acgcgccagc cctctttgca cagacctcag tttctcatag ccgacgatca tgatgctata 1380
ggcttttccc attgtaaagt cagtcaatcg cttcctctta tcatcaaaaa caaagacccc 1440
aatccgctcg tttccgagcc atttccggaa ttctctcttc cagttattta tcaatgtgac 1500
cgggcaaaca ataagagctt tcttaatcac tggagcggcc tcgtaaactc gattctgttt 1560
tagtagagtc catagcagag tgatggtctg taatgtcttt cccaaacca tgctgctcagc 1620
tagaatcgcg ccttcgccat tgaatgacg catccccata acacactcat acaagaactt 1680
cacgccctcg cgctggtgcg gccggagatg ttttgccaaa ataggatcca caacaacatc 1740
cactatgcgc tttcccttgg gcgcgcagcc cggccgcttc attatcaatg cccaggtctg 1800
cttaggatca tggcggggag taggtctatc taacgaagca gctggcataa ccgtgctctc 1860
gagtaaaggc ctcttataag cccctgaaat agacctcga cttgctaagt tcgcggcctg 1920
actctcctta acccggtct cggccagtc cggactaggt gctgatattt cggatcgaga 1980
tatatcttct tcccggctca tcagcacggg aacagacgtc ttctttgatg gtaatggcct 2040
tgtaagcgat ggcggcgctc gggcctcggt tttagtcatt aaagaccgct tcccagagag 2100
atactcttcc ttgggaatct ccgtatcaat ttcaacttct tttcctccga ccgaaagtat 2160
gacgcccggc ttcaggacag aaccatacat cgcccggccc atagccctcc ccgagatatc 2220
ctgcagatag acgtatccat ctgcactga gacaatcccg tcgccgtccc aaatcttggt 2280
cttttttggt gtgggtttcc gcctatgagc cagtagatgt tagtccatac aattcctgag 2340
agtaaaatga acatcgtgta aatcaggggt ctgggttacc atagcacgtt gaaatacctc 2400
gcctcaggca aggatgagtc tacatatgca cttccatcgc cacttccgcc gctagtaagg 2460
gcagacgcct cgctaacatt agtgacctga atcaaaggtt tcctctggtt cgctaacgta 2520
gtacgcgtgt tctcagtgtt gcttgatcc tgggaaaaca gtcgtggccg ctttgcaggc 2580
gggccgtcat cggtttcgag aggccttatg gatgggtttt ggggttgatc ggcaggctga 2640
ggtggcttcc ttatcgagag cggcttgaag ggcttaaaga ccatgacgag aaatgggtct 2700
tgaaatgttg acgtagcata agccttggtt aaagttcaag tggaagagac tcgcgtcagg 2760

cgccatggga acgcgtgttc acgtgactcc aatttcgtat gcatacgatt ttcctgctaa 2820
 atactggata attgatgaat ctcatthaaga gtcagttgat cgaagataga tggatatagtt 2880
 atcgcatata tacaagaatc ataacgattg acattataag gatcttataa tccgctaaat 2940
 tccagacttc atctaaagcg ccatgtgcag taactattgg tacattcact cttcctgcgc 3000
 gatttgatc cgatttttgt tttgggtttt ctttttctat ttggcgtcct ccgccagagc 3060
 cctgtcagtc aacggggacaa acttggggcc ctcgatgaa cccattctga agaaccagtt 3120
 gatggccacg aagatagtc gaccgcccgt catcaagcta gcgtagttca tggaagccgc 3180
 atcgggtgggc agagcgaagg ggaaacagaa gataaccacg aaggcgagaa tgtaaatgca 3240
 gctaaggaca ttgatgacgt atccaatatt gcccatccag aagtagccac ggacaaagga 3300
 cgagcggcga gtgagaacat gggggaagat ggcggcgaag tatgaaagag aagagagctg 3360
 gacgaagcag ccaacgaaag cattgaaggc tgtgggtggaa ccaacataaa tacacgccag 3420
 gattgtgata acgccgccgc aaacgagggt ggcattgaag gggttgtgca tagtcgagtt 3480
 gatacggcca gtccagttgg ggaagggagt cgctcggtcg cgggcaagag accagaggggt 3540
 acggcccgc gtgatgtagc aaccggcgca gttgatgacg gtagggagga aggtgatgat 3600
 caggagacca agaccgccgc ccttggtacc ggtcgcttg cggtagagct cagcgagagg 3660
 gaaaggcgcg gccagaacag actcgagatc gttgacggcg taaaaaagcg tgatcatgta 3720
 aagcaaggca gagatgaagc cgataactcat ctgagcaagg acagccttg ggatgtttct 3780
 gctgggttta gggatctctt cggcgagatg ggtcgagcag tcgggtgtac cgacagcgta 3840
 agcaccgttc agcataccgg cgacgaaaac gaagccattg ctagagtatc cggtcgagtt 3900
 cgtccaggtc cgccagacat cctcattcgt ggcatacggc acgccattaa catggggcat 3960
 gcaggcggcg acaatgatga caatgagcac accagagaga ataaagaatc cgcccaggtt 4020
 attcaactgc gggaggaacc ggttcaaaaa taggacgac gagcagcaga gccatgtaca 4080
 gatgatgaag ctgacaaaga cgtgccatgc cttcatctcg aatccgggggt gcatcagcgc 4140
 atacatcgag accgtctgct ggccaagaat ggcggataca gaagcgccac caagcaccca 4200
 agccaagcag ttccaccagc ccggaagaa cccgcagacg cgaccatact tcccagcagt 4260
 aatagaagcc cagtgataga ctagataagc aaatcagcca aagcgaaaga acgcagcgga 4320
 gcgaggaatc ataccaccac cagcagacgg cattcctgac gccagttcag caattgatgc 4380

agccaccatc cagtagcaga ccgagacggc gataaattcg taaataactc cagacggggcc 4440
 tccattagaa agagcagtcg ctataacttc tccctgggca atccatgtgt ttccagtcgt 4500
 gatggcaaga gcacagatac tcagcagacc gtaattgcgt tggagctctt gacggtggcc 4560
 ggacgcattc acaggcactt ccaccgaaga accttggttc tccttggctg agtcgaccgc 4620
 gggcatcttt tctgctgctt cagccattat tgggaggggtg agaaacgaac gaaatcgaac 4680
 ggaataagat cagaaacgaa cgtgggttcg gacctgataa gagtcggttc ccggtggcgt 4740
 aaggatatgat tcaatgaatt ctgtagggga tgggatgcac gactgcgagc gtcaccgtcc 4800
 gtcttggctt cctcaatagg aggctgatca gtaggaaaaa gggagaagcc ctgcaccgtt 4860
 tgagcaagcg aggacgatta tcgaagcaag gcgactgtta ggggtttata ctgttacaac 4920
 tactttcgcc gacgactact cctaccatgc agcaaggga gcacaactcc ggtgcgggtc 4980
 ggggttctga gttgagccgg ctggcccgca tatgggacgc tggaaaccgt ccagatcagc 5040
 caatcagcat catgaaggct ctgtccatgg tggcgacca gaccaagtg ggactttgca 5100
 gaatgattat tggtcgatgg aaggaaaagg aatcgacac gctaagcctg aagagggagc 5160
 ttcagcagat gccagagcca cgagtcttac catttggctt tgagcaatga aagatttgat 5220
 aacggaatcc ctttgatcgt gggtaaagag ggaaaactga gcagatctat gggacttgt 5280
 tattgtacca ctgtccacaa gacggttacc ccagatcttc tccgtatact gcattgggca 5340
 ggcgttcacg gcttagggac cctgaagggt ggccccagac ctgaggtcta gagaattgtg 5400
 tgcagttctg caaggaaaga taacataacg gtgttcgggg tgctgatgat agacggttcc 5460
 tgcaggtgat attaattaat gataatgaca ttatattatg gcgaaaattt agcaggacta 5520
 gactgaatc gggccaaact acccatgtac aaggtagcag taagcgagtg caggactctg 5580
 gaagccggcg tcggagcccg ccgccagata gtccgtctac aatgcatatg ttctatcctg 5640
 gccccaaact caatctcgac tcatgtctca gaataatccc agtagtcttc caggaccagg 5700
 aatctgcaac aagcggcgca tggctcaaac ctgccggggg tattcttata ctggttgccg 5760
 ccgagacact gctaagaact ttattagaac ttattttat ccctacagag gtcgggtcaa 5820
 ggaacgtgag atacgatgaa ctacggaag ccagtcgga tcgggtcaca accgccgcta 5880
 acgcgcactc ttgttctaaa tgctatggag agccaagcgc caggcgccag attaaatcat 5940
 tattaattat gacatagatg ttcaaattaa ggatagcaag caatatacta acgtgagttt 6000

gagacaaaga ctccggtat gtccgagctc aattgtaaga aaaggctgga ccttgtgttg 6060
tgtttgatat agatgataag aatggatctg gaatgacaaa ttctgtttta tctgctagt 6120
taactgaggg aattatttta ctgctggact tcgcatgcaa cgcgatgcaa agatttaagg 6180
tggcatttcg atgcgctagt cggcgaattg agtttttttg ggcaaccttc ttagattgat 6240
tctggcagac taggccaatt ctccgattct agagccgaag tcaagccacc gggagatgga 6300
gatgaagctt gggatgggtg cctaaaaaag ggttgagtgg catgatcaga ttaaggaaca 6360
tgactcaatg gtttccagcc ttttttttaa ttgcaaagaa atgtgggatg aggaccgtac 6420
atgagacgag cagatcgccg tgcggataac atgcggatag catgcggaca gctaaccaag 6480
tctactcgca gaacatcggc atgcgaatgg ggtcgaccag agaatttgat tgctcctaata 6540
tggcctccag ctttccagcc atcaagggtc ttgttgaacc gttggagtgc aggcttcagc 6600
tcgcctctat tccggatcga cgctcgtgga gccgaccaag ccctgacgat ggagacggac 6660
acgtaacaat cattagtact agccaggctt atacgttgtg attctgtagg gagcaaagta 6720
cctcgtcgga cctgctcaat atgataataa atataatc aataactcga cagttgaaaa 6780
ccagcgctc cagagtctag aattcgacag gcaactgtagg ccagattacc gacgggccag 6840
gggctggagt ctgccggtgg ttgctggtgg ttagatcgac gccgcatgat cctggactcg 6900
actataggtt gagacaccgg ctagtccaac cctgggttcc aggcttgaga attggaaagc 6960
aaccaaggca ggtcttctcg agtactctgg tctcgaatc aaaaccgtgc cctgaatcca 7020
gagctgcgga ctggttgctg agtggctctc gcgtgccgcg gaaaggctgg ggttgaaaga 7080
gaaaaagcaa gcatccgttt gtctgcacct tccatcgcaa cattccctga atttgatcga 7140
ttgcatgttc gtggtcatct ggccatcagg ccatgtgcct gaagtcgcag gccg 7194

<210> 3634
<211> 10548
<212> DNA
<213> *Aspergillus nidulans*

<400> 3634

ggttttatcc ttgggggttc cattccactt gtcgagaatg atagcattct caggctgcag 60
acgggcgtgc tctccttgg tgtcgatcaa gatgacctg gaaaggtcac gggtgaggta 120
agaaagatcc tgatgaacca tgtagccat atataaagcc ctttgcagca agtttcagct 180

gttacgtacc ttgatgtatt ctccatcctt gtacctggtg gcttccctga acaagggcca 240
 acggatgatg cggtaagggc caagcttgcg gagcacctga tcggccatca tgctaggcac 300
 gctggtaaag aggacgagtt cgtagtactg gttgagatag cgaaggaagt agtcgactcc 360
 aggtcgtttg gccacacgcc atccatgttc acggctccat tcgctgtgga caagcaaadc 420
 ttccagactc aggactaatg tataaggttg gcgaaggttt ggatcttcgt cgggaagcag 480
 tttcgggaaa gcagggtctt tgtaatatgct tgtaaagtcg cccattcgag ctttgatgag 540
 attataccaa agtccaaaac tccagccgga tgggacatca ggatgggcat tttcctctc 600
 aacggtatcc cagtttcgcc cgagataagc cataccaccg acacttccaa gcaagaacag 660
 tgcatacatc aatttggtcc tgccgggctcg tttgcggtca agagacgatt cgtaaccacc 720
 cttggggata tcaccacggc catcatcgct gtaatcttct tcaaaccgag agggatcttc 780
 ggtcaagtcc aatgttcgag agccactttt cttcgagcga gcctccagtt ccgcgggcag 840
 ggtggaaggg ataccctgtg taagatcggg gagcggtctc tggggcgcat cttgttcgga 900
 ttgtgaaggg gaagattccg gcttgaggat tctggtcaga tcagcgtacc cgataaatct 960
 cgaagcccta aacttacaga gctggaagcc tgtgatgtgg tgtttgcggt gttggcttga 1020
 ggatctgatg tcgtctcaaa ctctgctgtg tccgcgcat attgctcttg ttgggagggc 1080
 ttggcgggtt gctcaggctt cgaggactta acagattcgg ggagtttgta aggagtctta 1140
 ggcttggaac ctttcgctga acatcgtgag tgtgagacag gaagggctga taggcgggga 1200
 gcggaaacga gaccgctcg cctcggttaa ggcaagatag cacggcgaag catgctgtga 1260
 tgaatggata gaagtcaaga aacaatatac tcttgctctg cacaagagga agtgtgagag 1320
 cgttggttta acgcccggat gactccgctc ggagcaaatg aattcaaaag ataagacaaa 1380
 gtggtatccg cgagtaaagc tggaaacccg aggcaatggt caaggatcga ggtctcgctg 1440
 ccaggaaaac ctgaagttcc atcatcgctt tgaatgctac ggcggggcaa acagaccact 1500
 tgcgctgttc cggccaagta taaaaatttt gtcgcttgcc gatttcttac atttttcttt 1560
 tccttttttc tccaattatg aaagttgatc acccagtcga caaatttgac ccaacaagcc 1620
 aattttctcat gcatgccggg ttgtattagc tggggagact gatatccac acccaagagc 1680
 cgcagcgaag aaacttttgt gcagctgcag ccccgtagt gggatacaaa actcacctat 1740
 cttctcttgg tgataaaagc ggtgggatta cacctgctta tcttctgaga acgtatcttc 1800

gtgttcattc tgcacttcag ctttaagttca ataatggcat gatatagacc atcaatcgcc 1860
 tagtgacggc tttctctcat ttcgtatcgt ttctgcgtat accctctaga tcgcaatttc 1920
 tcaaattatc acgatggcgc acgacctcat agaacccttg caaagagtac gtttcgcgga 1980
 tccgcctgcc ggagccaatg catacaagct ccgaaatgta gcggcaacag cgtacgactc 2040
 cgaagaagat gaagaagacg aagaatatcc aactccaagc gagccatttc gcttctttga 2100
 cttacccgcc gagatccgcc tacgcattta tcaactttgcg ctgtttacac ctcggcgtcg 2160
 caacagacag acgaacggca atgttggagc ctcgtcgagg aacccatccc gttccctca 2220
 gtcggaccga attgctctat ttctcacttc gagacgagtg catgatgaag cgtctgatta 2280
 tttctattcg acgcaagctt ttcgtgtctt ccacatccaa gactattcgc gaatacctac 2340
 tatcagtga ataccacca aatatcgctc ttctatcggc acgatcgagt tgatacttgg 2400
 ctctagctgg accgcgcgc ctcgctcttg gagggttacc cgccaactag ggttggagga 2460
 gatgactcgc ctccgactat tgaaggctt tgttgagtgc gacctctc atcctgtctt 2520
 taacggcttc cgcctctcca ataacttcta tcaagatttt gccggcgggt tgttgcgga 2580
 gatccttgag agactgccac gcttggaaatt tgttgagttt gatggaaacc catctgtaat 2640
 gaaaggcggg gcgttgatga agcgactact gcatgaagca agaacagcgg gcaaaaaaat 2700
 cgtctggggc cccagcgag ggtggacaga ttatgataag gaggatatga ttgccgaaag 2760
 agttgtctac gggttgcaga gtacggctag aagacctcca gtgacttata tcagggagag 2820
 ctcttccttg ttccaggag tcgtgtagat accattttcc aatcaaaaaa tgacttgtat 2880
 atagcttttt acccctattg gaatgaagat ttcacgagta atgaggttcg atccctaggt 2940
 cgttgacaga acacgaccgt ctgaatgcat ttcgtcaagc caataaagat ctgtagctat 3000
 ttttcatgca tatatctact atagttctc gtccacatcc atgccgacgc cgttctgagg 3060
 ctctttgccg tccgcgccgt tagactgccg tgccaccgaa gcctccttat caatcatttg 3120
 ccgcgagaca gcatcgatgt tgtcttcgat caattgctgg cttacatcct cgatgtctgg 3180
 acgcatttgt taagaaaccg tcctgacatt gtgagtggta ggtatgatga cttacgcttc 3240
 ttggggtcaa cctttccgac atatcttgtc ttcagctggt ccttagtgag ctccgtctcc 3300
 tccttcactc gtttctcgta gccctcgcc aagttaacga gctgcttcat gcggtcaaca 3360
 ttgtgctgac attcgtcgtg aaagtcattc atctgcaacg cttcggtcca gacttgcttg 3420

tgcaggttca ttagcatggt ctcctcaagc cccgtcttgc ggtagttgat gccaatgctg 3480
 tagtagtgtc tgtttaatcc gtggatcaga gcctggatag acggcttggt caggtgaccc 3540
 aggttggagg tggtttgctg gggctcttga cccatgacaa ccgtctgggg ctgaatgaga 3600
 cggaaggcgt caatgacaac cttgcctttg acggactgaa ttgggtcgac gacgacagcg 3660
 acagcgcgag gagtaagctg ctggaacgat tgctgagtgt tgatatcaac ggaggagagc 3720
 cagcatccaa acccaggatg cgagtgatac caaccgacaa cgggttcggt tctgaatcat 3780
 gcattctcag cacaatgctg tcaaatttta tggttatagc ttaccgtccg gtttgccata 3840
 gcatgtccat catttttggt tgggaatacag ggtcaacagc ttcgacactg acgcctgtac 3900
 cgctctgagg catcgcaaag acgtcgggta ctcgactgt atattcatcc acgaattcac 3960
 ccagcataag acccatgact tccataggga cacctgctcg accgtgcctt aacatcttca 4020
 agagcgcaag agatgagatg tgtacgggtt cggagttatc aaggagggtc ggagtacct 4080
 agtcatccga tatgaatatt agtttatgct aacttggcca taataagtct ccggtttcaa 4140
 agcagctgaa cacagaatgc ccagcaatct gaaaatgtac aaacaagcgg aagacagcat 4200
 atgagcacia ctacagcac ctggagcaga gccgttcac cccataccct gggcggcctg 4260
 gatcatccta gtgagtctat ccattgctgc tgatgatgat gatgtctagg ggaaatataa 4320
 tgtccgaatt ctggagggca aaggactact tcctcaacgg gaagctcaa acggtttgta 4380
 agtgcggcg cggcaccgag acgtaagcca aagggtgaat gtagatcaga tcggtaagga 4440
 atttgaagtt gaggatgaga aagcacagga aaggaacacg aagatgaggg aaagctatcg 4500
 aatgggggtg tagttaagac gccgtgtccg cgatgatcca gacttgagct gcgcaggacc 4560
 gcaggcacga gaggtgacg agggcgggtga acgtagctca tctgcgggca ccgcctttcg 4620
 ctcggcctct ccttcgtttc ctcccagccg gagtagattc tctccactcc gacctatctc 4680
 gttattccat tttctccaat gtattctcat taatatctct tcctggtaga gttttctgcc 4740
 tgcttgttcc ttacgagatt tggcctcaaa cctttagtc tttttctggt ccacgactt 4800
 tctcgcgttc caaggaaact tcgcgcttta gagatcttcc cactcgtcct gattgaggac 4860
 taactgtcgc cttaccctcg aacttacaa aaataatggc ttcgggaacg tcggggccgg 4920
 ctgggcctcc gctggatccc atcgacctta atgtgtctgg agatcgagc aagaggggtg 4980
 cctacttcta cgactcagat gtgggaaact atgcatatgt gtcggggcat cccatgaagc 5040

cgcaccgtat caggatgacg cacagcttgg taatgaacta cagtctctac aagaaaatgg 5100
 aaatctacgt gagttttcgt ccattttgtac ctgcgatagg aacgtactaa tgctcaacct 5160
 tcgcagcgtg caaagccccg ctccaaattc gaaatgaccc aatttcacac cgatgagtac 5220
 atcgacttcc tttctaaagt tacacccgat aatatggacg cattcgcgaa agaacagagc 5280
 aaatacaatg ttggtgatga ctgccctgtg tttgacgggc ttttcgagtt ctgcggcatc 5340
 agtgctggcg gtagcatgga ggggtgccgc cggtcgaatc gtaacaagtg tgacattgct 5400
 gtgaactggg ctggtggcct tcaccacgct aaaaagagcg aggctagtgg gttttgctat 5460
 gtgaacggta tgtcaaagct gttctgcggt ttcaacagta cactgataaa acgttgtaga 5520
 tatcgttctt ggcattctgg agttgctccg cttcaagcag cgggttctgt atgtcgacat 5580
 tgatgtccat cacggcgatg gtgttgaaga agcgttctac accacagatc gcgtgatgac 5640
 tgtttcattc cacaagtaac gcgagtactt cccaggaaca ggtgaattgc gcgatattgg 5700
 agttggacag ggcaaatact atgccgtcaa ctttctctc cgcgacggca tcgatgatgt 5760
 ctctacaag agcattttcg agcccgatc caagagcgtg atggaatgg accgtcccga 5820
 ggcagttgtt ctccaatgcg gcggtgacag tctctcgggt gatcgcttag gatgcttcaa 5880
 cctcagcatg cgaggccacg cgaactgtgt caaatatgta aaaagcttca atctcccgac 5940
 gttaattgtc ggaggcgggt gctataccat gcgcaacgtt gctcgaacct gggcatttga 6000
 gactggtatc cttgtcgggt acaacctagg atctgagctc cttataacg actattacga 6060
 ggtaagtaca catcctgggt tatcggtaaa tatgcttacg caagacagta ctttgcaccg 6120
 gattacgagc tggacgtccg cccgtcaa atggataatg ccaatacag agaatatcta 6180
 gacaagattc gaacacaggt cgttgagaac ctaaagcgaa cagcttttgc cccatccgtg 6240
 cagatgaccg acgttctctg cgaacctttg gtagacggta tggacgacga agccgaggcc 6300
 gccctcgacg atttgatga agatgagaac aaggacaaac gctttacaaa gcgacgcttt 6360
 gatcaatatg ttgagaagcc cggcgagctc agcgacagcg aggatgaaga tgagaatgcg 6420
 gcgaacggag tcacccgcaa accggctcac ttaaaacgac gcaaccaggc caactaccga 6480
 ctagaccttg ctgattctgg agtcgaaagc ggaatggcta cccacagga cgcttcatcg 6540
 gtggctgatg aggagatgga cactggcacg gatgtgaaga taacagaagc gcccgggccg 6600
 gaacctgact ctgaagccca gggaacatcg tcagcagccg agccaccatc aaggcgggga 6660

aatggatctg ttgatgagcc atctgagatg atcgtcgatt cgaaagagcc acccaggtct 6720
gttcctgtct cgcgccctgt ctctcccaaa ccaacagacg aggatacggc tatggaggat 6780
gcagatatgc ctgtgcctga ggtaaatacag gagaacacgc cagaagcaag ccaggcaacg 6840
cagaataagc ccgcggaagg aacacctgct tcggagagcg ccgtgggctaa gttaacgtcg 6900
caaacaaaagg cgctccttcga gagcaacgag ggccggaagc agctagaacc agagacagtg 6960
aaggaggccg gccttgacgc agtgacaacc gagactaagg acaagactcc tgaagcacct 7020
cgagcggggg ctctccccgc ggtaaccgcg gagcaagaga cgaccaaaca aggggagcct 7080
agcgcagaag cacaacccga agccgcaaag gagtgaggac tagcgcagca attttggtgg 7140
cggcgttggg actcgggttc ctggcgcaaa gggatgggtg tttggaattt actaactggc 7200
attgactttt taaaggaggg tcctttttct tcatattgtg ctattgcttt acatttgagc 7260
tggtgatgaa ataattcatg tattgcatta tgattctgtc ttgcagtata acgcgccgtc 7320
tcatgctcgt tgggctgggc tgccctatag attagaaagc aagatgaaac cgatatttgt 7380
ctggcatggg tagagccacc gataagagat gtgattcttg tgcgtataga ccttgtaaat 7440
aataatgctc actgcttgac aggttgattt tactgtctgt ccatctagct tagtagttgc 7500
gtatgagggt gggtggatca ggtccgtacg aagctgacaa agcaggtcga cctcttcccg 7560
aagcagcaaa gtcttagggc ttaacaggtc cactcaactc aaccaatgaa gtggctaccg 7620
ccaagatttt gcaagcacac ccgcactaag cgagaacact gagaaacca agcggaaaagc 7680
catccaactt gtctcgacct ctgcgcgct cccttctgtc gccaaacccg ttatccgaca 7740
ccgttaacgc gaatacatag ccaagatgtc ttccaagaga gggtgagttt ttttgaattt 7800
attcggttgt gcttgtgggt gcgctgggac acctacgccg tgaacggttc gattattcgg 7860
cttgcgtaa tacatggaga gagaaacgat ccgaggatat tgaaatggaa caagatctgg 7920
aagctttgtg cgggatcaga taaagacgat gcgaaaaatg atcggcttcg attccttgca 7980
acctgtactg gactcgatat ggactcagga ttcgaaattt gagattttgc taggaaagcg 8040
tcacgtctta agaaaaagta gctgaccaa cttttttgaa tagtcgtggg gttgccggca 8100
acaagctgaa gatgacgctc ggtctgcctt ggtatgttcc agccatgaaa ccaaccaat 8160
ccgattcaat acaagcttta cccgaacat caagcatcga acgtcggata taatcaattc 8220
ctcaaatcgc tctaccctca cctacattca ccaatacaca cgattacact tcgaaaaaca 8280

aggaaaagca aagactaaca ttogaacagc ggcgcgctcc tcaactgctg cgacaactca 8340
 ggtgccccgaa acctctacat catctccgtc aagggcattg gtgcgcgtgg gaaccgttta 8400
 cccgcgcgccc gggtcgggtga catgggtcatg gccaccgtca agaagggaaa gcccgagctt 8460
 cgtaagaagg ttatgcccgc tgtcgtttgtc cgccagagca agccctggcg ccgacctgac 8520
 ggcattctacc tctacttcga ggacaatgcc ggtgtttgat gtttcaactcc tacaggctca 8580
 catgcttcgc catatcggcc ataatttate taggctattc aggtgaaaat tgtctaacat 8640
 gaaatccgtt tagatcgta atgccaaggg tgaaatgaag ggttccgcta ttaccggccc 8700
 cgtcggtaag gaggtgctg agctttggcc tgtaagttat cctatccccg tgtcatatat 8760
 tactggcacc ctgctaatat gaaccttcc cagcgtattg cctccaactc cgggtgttgc 8820
 atgtaaacgg gttacagcgg ggaaatggga tgtattagaa cgaaatacca gcgggctctt 8880
 tttaaaatga aaaagatttt gatactctct ccactctgct ctctatttcc tggcctgttg 8940
 atgcgtttat gatcctacgc ggcacgcct tgaatacatt ttccatatgg ccattcgacc 9000
 taacaatcga atgacggaat attgagagaa tttccgaatg gtgcccacac cacctgctta 9060
 ttgcatttgt tcggcgctcat tgtcaagacg tgggaacact gttgtctacg gatccatatg 9120
 cctgtagtta tttacggtag ttaagccaag atgccgaaac gtatcattta tttaatcctc 9180
 ctttccaaca ctctcacttt ccaacacttt atcatacacg ggaggtttat cattaataat 9240
 gtacagtaga aagaaacagc aatccctatg tcaaagaata gaggtacagc ctccgttaaa 9300
 tccagctcat cccgtcttct tatectcccc aacaaccgcg ggcgggtatcg aagacgagtc 9360
 ggtgccaaaa cattcagata tacgcaccaa ggcgtacaag aatccaacaa taaacgtggg 9420
 aaggtcaacg acatgaacag cccaccagat atgctgtacg ccggcgggac acatggtgac 9480
 agcgtacctc cactccgaag cggcagtgct aaaccacaat gacagaaggc ctgcgttgcc 9540
 gccgtactcc cccatcatgg agcgaagggt gatttctcga atagatggag atgatgagtc 9600
 ctgggggtccg gatgggtcgt agcgggttgt gttccacgct cagctctgtt ggccactctc 9660
 agcctcgctg gggaaagagc cttcattatt ctgcacaggt ggctgctgtg gttgtttctg 9720
 tatagaatga acgacatcac acccgtatg gtcattggcc gtcaagatga gcccgttcct 9780
 cccccgcca cccgcggcg cgccctcgtc ccagtcctc ccaaaaattc cctgcaggat 9840
 cccgttgga ctgacaaact cactgagatg gttctgctcg cgcagcccg cagctttata 9900

ccgctttttc ccggattcat cgttttttctc aaagaaagta aaataagggc catccgtgca 9960
 gacaccctca ggtttatgga gcgggagatg tgtcagcagg agcgtgaacg tgctccggtc 10020
 ttcgactggg tatgatcggc caataatact gttgatataa gcgtatcctt gagtctgaat 10080
 gtcctgagaa taagctgggc catcgagtgt caagctgttt agattgatta agtgtagcga 10140
 cggcggttata ttaccaatcg ggggatgctg aaacctgata tcccagttcg cgcggccgaa 10200
 gactttcttcg aagcgcgaga tgcgctgttc gctggcgctc cccgagtacc cgatgtcgtg 10260
 gttgccgaca atgttgatga ttcgggtgtgc ccatgacggc gagaatggta acagctcatc 10320
 tacttttact tcatcacttt cagatttagc gtacccttc tgcgccgtcc gagtgaagtc 10380
 atcgtccaca cgctctccgc cctgaacac acgacgcaa taccgactcc cctccgctg 10440
 aaactcctca tccgtaacct actgactccc tattagatcg cccaagacgg tgacatgcgt 10500
 cggcctcgtc caccaatgta aagtgcgaaa aatatgcgcg aggtagta 10548

<210> 3635
 <211> 5061
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3635

gcacatcgca ggcattggaga atcgaatcaa gtggctggag tccattgtac aacatagatg 60
 ccccgatatc gacttaagct gcggccctgg aagcgcacga gaatcactgg acgatggaat 120
 gcagacggaa acggtcaatg aaccacaga accttacacc agagattacc accaagcatc 180
 gcatgacccc cttcaggcaa gcagaaacct acaaattgag gttagtccac gggttgtgat 240
 taccggggac caggaagctt caccgccttg ttcacaacct gcagtaaatg aggaatctca 300
 tcaagcgcac gagatcgggc tcgtgtccct atctccagga ggtgagcgtc ggtatatcgg 360
 cccctccagt ggctatttct ttgcgaaacg gattctcgat aatgctggtt gccgtgggtg 420
 cccaaggatc tcaacgactg ccgccttaga ctctgtcat ctgtctcttg agcttttaaa 480
 taccacagcc aatgccggtt cagaagcaaa gcacaattga actaacgacc acgtgcttac 540
 aatcacttta acacctatac ccactattac aaaaacagat gcatacggtc gccaccgaac 600
 cctattacgc atgacaggaa aagcaccctc ttgaaacgtc ccaacgtata tatggccgtg 660
 accatgactt atattaatgt ctaaagccac tgcactgggc gaacatgtgc agaaccctat 720

cgccctgcag atttacaggt tcaagactat ctatgcaacc acggaatcgt gatgtgcatc 780
 cagagctctc tgttcctgat ggtatatgca ttatacagtc ccagctgcaa taacgcatct 840
 ggcacctcaa taagcatgcc tgccagcggg ttgacctggg gcttcagcgt gacgttcgag 900
 cttcttcaac attacaaata tcgatgttcg atcaagagat gcgaacgcgt atattctggg 960
 ttgtttacac gttcgatcga acaggatgca ctatgatggg ccgaccgatt ggcattagag 1020
 acgaggcctg cgatataagg gagggggccac ccatacttaa ttaagcctgg agctaactct 1080
 tatgtctagt ttcccctcgc gatatcggat catgacctta tcaagattgg caaggatact 1140
 cagacgtacg gagagtcaac tttccacatg tcgtactcaa tccacctatt taagttagct 1200
 cagttgaact cggagataaa gtacatcatg catagcatca accgcagcgt tccagcttat 1260
 gcgctcccag tcatccgaga cattctaagc tggcaacaag aaatgggtcca gtccttggac 1320
 agctgggttcg ctgcaatccc tccacaaccg cccggtgtca gcgcggagat agtgctctta 1380
 tgcaaggcaa aatatcacga gacaatgatt ttgttattac ggtcaagtcc tgggattcca 1440
 aaccggtctg acgcagtcct tgacgaatgc ttcaaccatg cccttgggtct acttcgaaaag 1500
 ttcagcgagc tctacacgat agggagtctc ctttacagcc gactagctgt gcactcaatc 1560
 ttcgtcgggtg ccctggtaat gcttaattgc atatggaaac tgccagcggc agccgcgagg 1620
 gtccctgtgg acgagttgat ctcgaaactc aataccacac agaatatcct cagtggcatc 1680
 ggcgagcact ggtctgaggc tatgagagcg cgcgattgcg tcaaagagct attcaccgag 1740
 acgattcaga ggctattgag aacgcagcca ggtcaaccac agtcatctac gtcacagcca 1800
 ttatactatc ctatccacag aagtactggg caagctgcga tagaagggca cgcagatgtt 1860
 catggagccg caattcacgt gactcatagc gagctaaata cgggtttcga tccatctgct 1920
 tccaattctg agttctcaaa cctgtttgat gatttcctgc agggcgattt tatgggttat 1980
 agcggaatgt ctgatattga tgggctcatg tgggagatat ttaacagcgc tgcaccatga 2040
 tacttggaga ttcatacacg ctgacgacaa accctaattt cgtgcggacg acaggcgcag 2100
 tagactgggt acttgcttc actagactga aagtgactta ccatgacctt tcgggcaatt 2160
 ttgaattgaa aaagaagaga ggaaggccat gcgaccatgt aaagagttac gaccaccacc 2220
 ttctccactt acactctcgg tcccatacgt atcacctgc cgcagtcgga tatccctcgc 2280
 atatgctgat gatagtcaat tccatcgcgc catcgttgtc cacagtcgcc gtccttctt 2340

ctcgcttttg aaaggcagat attttgatcg caattgtacg atagcgaggt ggttttcatg 2400
 atgctgaagc ggtgcataat gagagagatc aatgggggtg gtcaatgaaa gaggtataat 2460
 tcggcctgtg ggattcttcc cgcattgaaa gcaatatata cgacgtatat aaataaaatg 2520
 gagtttggat atgggtcgaga tactagatag gaggtcgagt ttataccatg taacgcaggg 2580
 taaaatttca atacactatg tattcagaga gccagcaac actccgctat taccctaaaa 2640
 agcattatga gtagccacgc acctgcagga tatcgatgt atgtagcctg ccctaatatg 2700
 caccatatta ccaatgtcca aggaaatgcc aaacgtctgt gcaggaagag acacaagtat 2760
 atcctaaagc acgggaaaca gcaacgcgcc aaatcagcat ggagagaata gaacacgtgt 2820
 tatcttagaa gcaattcgga aattgggtgag ttgcttcgaa ggtaaatatg aacaagaatt 2880
 ggaacaaatc aaggggtata tgtaaaatgg tgttggcctg gctgacgagg gacgaaggta 2940
 taaaagaaac agagaaggca acttgaacat aactcataga catagggcaa aggaaaggcg 3000
 tgatggtaca tctgcaacca gaaaaggatc cagtacggaa taataatata aaaaataaaa 3060
 agtttccaat ccagcgctg tatatggtgg gtatgatgaa aatatgaact ttccaacacg 3120
 cataaacgat gataaagcaa agggcagacg ttcaaactat attcataagt cttgtggtcc 3180
 gtcgttctgg gaaacggcgg gcgccaccag gtgcttgccc tggtagtccg aggttggtcg 3240
 gagagggcgg gggacgtcca tatggagctg gaccaggacc tggctcgccg ctacggccag 3300
 gtccagggcc gtacgggcct ggcgggcctg gaggacgagg cccacgacct cggcctcggc 3360
 caggaccggg atatcctggc ggggggtggtc ggccgcgaga aggagggggc ataggcatgc 3420
 cgggcccagg aggaccaaga ggggatgaag gcatagttag gcggcggaag ccgtggggag 3480
 agacggaagc agcggcgcg cttggcatctc gctcgagta aacatagccg ttccattcgt 3540
 agtactcgcc ttggaggctg atgttgcagg tacgacaacg aaggcagtcg aggtggaatt 3600
 tctgggtatc gccggggcca ggaccagtgc gtctgtttgt ctcaaggat tgccttcga 3660
 taccttcgtg acatccagcg caaatcgagc cgttgcgttc gtggtagtgt tgggcgcagt 3720
 agggtcggtc cttgagcacg taaaagtcgt ttgtttcgaa ggggaggcgg cattggaagc 3780
 agacgaagca ggcgcggtga tagcggcctg tcaggcggcc gtcagcggag gagatggact 3840
 tgccaatgat catctcgccg cagccacggc atggcccacg tggcttgggt tgttgtgggc 3900
 ggggtgtggg ttctgtagca gctcgcgcta agggtttttg ctcttccacc tcttctaagt 3960

tctgggcgct ttgaggactc aaggggcttt gggggcttcg gggcccttgc gaaatcttgc 4020
tgttctgaga gatttcagag actagagaca aatcgccacc ttctgacagg gccgggtctg 4080
tcggtgagtc agggctgaag ttgttctcgg ggatgagagg cggttcaagg gccgtatgac 4140
tttctgactg gcttttatcc aggttctctg ttttcgcccc agtttcgttc cgagggtctt 4200
caacgacggg acctagacga cttagatcgg atggtttccg cctggacgag ctgacgtcgg 4260
attgaatgct tgatagggaa gtgccacttc tagtttctga gggtgacgaa tcagaagaag 4320
ttgaatcttc cacaccctca tcgttaatgt ccaaaccaag agcgcgagca aagttagaaa 4380
ccgatatagc gctgtcatca gtagcgtccg aattcttctt gcgcgtgtct ccttgcccat 4440
tcgggtccga aggggttggc tgtagatagt cggaagctga aggtctgaag gctttatatt 4500
cgaccttcgc agattcagcc ggtgtctccg accgaaattc ggactcggga agatcgaggg 4560
gtgggccgta tgtgctttgc gccggactgc taaagaataa ctcggcagat ccgcgcgaac 4620
tgctgaggcg ttccgagttc gcagccgaag aaactcgtaa agggctggct gcaggtttat 4680
cgagcgcacc accgaaatca aatccgctgt ggacttcgtt ctttccatcc ctctttgccg 4740
atatatctga cattgaggaa tctgagaaaa ctgaatgata aaacggacgg ggtggagatt 4800
gcggaattgg gggatatatc tctcatatc tataccagc taaagcgaca ctcccaaacg 4860
atggtcgccc actggagatt gcggtcgac ttttcgagct gcggtcgccc taccgggtgc 4920
tcgctaagga cgttctatag ctgctcctgc tgtctacaga aacagtgtgt ttatgcgcga 4980
acgagacatc gtccttcggt aacggcgggtg gtggctgttc ccatctctgt tgagtggtaa 5040
tgcgcgctat cggtggatgg c 5061

<210> 3636
<211> 2738
<212> DNA
<213> *Aspergillus nidulans*
<400> 3636

gcagcaatga tgatgtgcac catctccacc caggattacc agttcattct gcctatggta 60
tacatcacat ctctagtcac tggatccatc tgctcgggct ctctgcgttg cagggtgatg 120
cacgaaagcg gtgatgcatt cgtctgacta ctggggtgcc cacgagaggc agcacctgat 180
tggataaaat gcgcgcctta gcatttgtac tcctgctgac cggcaccagt ataggcggcg 240

tctgagtctca tctgcttggg gcatacttgt cctcgcttgg acttggctgg gccatccgga 300
 tttgcacctt tactetaccc accgtgacct aacgcctacc accgaccccg aagcctgtct 360
 cgatcatgaa tcacatccgg ccattgaaag aactgccctt gctaattgcta aagccggctg 420
 ggcgcttttc tacctgggga tatacctacc cttcaactac atcatcgtgc aggcggaata 480
 cgaagggatg tctgccgcgc tggccgggta tctcatcccg atcctcaacg gcgccagtct 540
 cttcagccgc ataatacccg gcaaagccgc cgacaagctc ggcaggctga acacgatgat 600
 tgccatgtgt gcttttgcag ggattatcgt gctggcgctg tggctaccgg ggacggggaa 660
 tgccgctatt atcgcttttt cggcgctgta atggttcgcc tccggttgcg tttatctccc 720
 ttatcccca ctgacggcgc aaatcagtga tatcaggag attggagtgc ggtcgggcac 780
 tctctggttg attattgca ttgcccgtt ggtggccagt ccaattggag gcgcgcttca 840
 ggcccgaat ggaggtgcgt ttgttgact gcagatctt gccggcgctg ctatgctgct 900
 tgggacggca ctttttgcgt ttgtgggtg ggcacttgc ggttggaatg tttttgctaa 960
 agtgtgattt cccaaggaag tgattgattg aagagctcga tagggctagg ggtctgcac 1020
 gaaaatatcg acggttttgc ccgtgacgcc gggagacttc tctagtccgc aacagacgag 1080
 attggctata ttgatgtagc aatgatgaga aaatcagggc ctaaaccatgt gcacggttgc 1140
 tgaaagggtc catctggccc agtattttgc tatcatttgc tgccgaaccg ccgcaggaat 1200
 tcgtcctcga tggattaact ggccggtctc ggcagtaac gccagattac tctgcattgt 1260
 tagcttattc cttcttgact ctggtcgttg attagttgga aaaaccgggc cgagtctaga 1320
 tctgaccagc agaggatatg gaatctatcc accgtcagct cggagcagca tcatatcaca 1380
 gggtgacccc tcaagagaaa catcatggcg ctaggtaggc ctctgttgg ttatgggtgt 1440
 taccctagac tggtaagact cccaccaaag aatggataag gcgactgcta aggtaatgg 1500
 gaatcctgca ggaatgagct cctgttctgg gtgacatcgg aaatcaacag tccgttactt 1560
 aatacgctt ctttattatt gtatctagaa atctccatac ttaggagatt tagacagcgt 1620
 gggttcacat gtaattgata cgatgggacc tgtccacaat ctgacgacat gcaaccctat 1680
 caatcgtctt tcgccctcca caggtagcac aacaccaccc agtctgaatt ccctaaagcc 1740
 aatctaccaa aaatgatccc catcttcag gtccaggga aatcaaagtc cagacctgct 1800
 cccctcttcc tcatacacgc catatcaggt ttggccttgc cctacaactc attcggcacc 1860

cttgacttcc gcggacgagc catctacgcg atcggatctc ccctcaacgg gccccgccgg 1920
 taccggctgc catcatcaat tgacgatgtc gctcgccaat acattcgctt cgtgctcagc 1980
 aagcaggcca cgggtcccta tctactcggc ggctgttcat ttggcggtt ggtggcactg 2040
 aaaatggccg agatgctcag cgcacagggg gagactatcc tccagatcat ttgaattgat 2100
 acgcaaaatc ccattgcccc tccggcctgg ggttgtgagg gccaggaggg actggcggtg 2160
 ctcacgtaca atgccattgc acagagagcg gggcagccga tcctggacgc ccggcagtct 2220
 acgccctcca gagaagatgc aaatgcaaaa gagaacaaag gggatgagtc gacggccatg 2280
 tgggaaaaga tgtacaagca tatctacaac gtgctggcgc tcgtgaagcg ggccgcaaac 2340
 ggcgagttcg tttccgctct gagggaggtc aaggttgact ttatcaagtg ctcagttctg 2400
 gaagtacctc ccgcaggaat aatcacggag cccagtagga agttctatct cgatcgctac 2460
 gagaatgagt acatgggctg gcagcctggg cagtttgccg gctgggaagg gcactctata 2520
 gacgcggagc acgatagtgt gtctgatgct gagttgttga agaaccctga atcgaaggcg 2580
 ccaaggtctt gatcaagaaa gtagacatat tgggcatttg tctggaaagt tagtgaggat 2640
 gataatcaga gaaaggatgg catgcactaa taccgttccc ttattcttac catccgggtg 2700
 gtagaagcta tcaacgctga atctggtttc tggcatct 2738

<210> 3637
 <211> 5199
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3637

tgcggtatga gccaaaggccg agcgatccat caggttgatc ggccgggaca tgttgtgctg 60
 gatctttacg gcagcagcag cggctctctg gaacgactcg gagatcacgg ttgggtgaat 120
 accctttcca agtaggcgct cggcagcacc cagcaagctt cccgcaatca cgaccactga 180
 cgtcgttcca tctccagctt caacatcctg agccgcactg aggtcgacaa gcatgcgagc 240
 agcggggtgc ataacgctca tatctctcag cattgtgttt ccgtcgtagg tctgcggggg 300
 cggttagtgt cgcacttcgg ggggagatgg aggaggcatt cgtacgataa tgggtgttcc 360
 tttgggagtt tggatctgaa aatgctttag cgcctgctca ttcatagcaa acataaaacc 420
 taccatcttg tccattcccc tgggtcccag tgactgtata gcgaattagc ccctcatcct 480

tacagttcgt ctgcacgcat accgtttctga tcgcgtcggc gacagctgca cctcattagc 540
 accacccttg aattagtgtt acagtgtaac gcacctctgg cagcgagaat gttggacgcc 600
 cgcacggcca tgggcttctc cttgtcctgc acgatatcag atttggccca cagtaaattc 660
 ccctctgcat cgacgaacct tgaaggcggg gctgctagga gcagcatggg gagcagcagt 720
 agccatggtg tattaagcta tgatgcagac accgtagcgt ataaaaacgg ggaaaagaga 780
 agggttgatt tggatagggtg atcaagtctg gtccagagcg gctcttgaaa ttcttccagg 840
 ctgcgggttt gcaggttggg cgggtgttgc gtccggggct tggcggccac tagcgtcaac 900
 agtcaagct ggacctgaag tcagaacagc cagctctcga catcatccta cccaacttg 960
 caccttattc atcttatttc attcatccct ttttcttac aaaaacctcc acttgccagt 1020
 acttgctcac gctctcatct ccggttgcta atctcgtcta atccgttctc tcgccacaac 1080
 ctttcaccat gccttccgcc acgggagaga actgggagaa gtacaagaag aactttgccg 1140
 atgacgaaga gcccgagaag aagatcactc ctcttacaga tgagtatgtc gctcgataga 1200
 tcccaacttc cggcgcagtg tcgtgctttg aggtcggtcg ctgacagacg caggacatt 1260
 gcagtactta agacctacgg cgcggctccg tacgcgaacg cattaaaaaa gctagagaag 1320
 cagatcaaag aacggcaagc gagcgtgaat gagaagattg gcgtcaagg tgcctttgac 1380
 aggacathtt tgcgacgaca ggacgctgac gtgtctagga atccgacact ggtctcgcac 1440
 caccacatht atgggacgtt gctgcggaca ggcaacgcat ggacagagg cagccgctgc 1500
 aggttgctcg ttgcacgaag atcatccaag acgagaagga ttcagacaag agcaaatatg 1560
 tgatcaatgt caagcagatt gccaaathtt tggtaacct gggggagcga gtgagtccta 1620
 ccgatattga ggagggtatg cgagttgggt acgttcgtct tctactatct agacttatcc 1680
 cactgacc gacttagtgt cgaccggaac aagtaccaga ttatgttgcc gttgccgcc 1740
 aagattgacc ctacggttac gatgatgact gtcgaagata agcccgatgt tacatatgga 1800
 gatgttgag gctgcaagga gcaaatcgag aaactacgag aatgcgcggg aatagcattg 1860
 acatctccag aatggagatg tgcttcccta tgcattgctc agagccgagg ccgaactgtc 1920
 cagtaggtta gtccttgata cttgcttacc gtctgaagga gtttatggca gcataccggc 1980
 atatacatgt cattcatgac cttccacttc tctggatctt ccttttgagc ctcaatccac 2040
 ctctctggct ggaaggcctc tgcactctca aacacggtgt catcataatg cggtacccat 2100

gcgttaaccc ccacgactgt cccttctggg aagaaatata ctgcgatctc cgcgccaccg 2160
 gctggaacga cacgcaaaaa gggcagccca gttgcgctgt gcattcggag cgcctctttc 2220
 atgacagcct ggaagtacgg catctectgg ctttctttga acgtcacgcg gtcgctgcat 2280
 ttgccttgta ctgtaaactc atcgatttcg tttcgaagct tgtctagaac atccggattg 2340
 cggagaaggt agtacatgat ggaggaaaga cttatagctg ttgtatccga gccagcgata 2400
 acatttgaca gacccatcat gaaaacgtgg tagtccgtca ccttctcagg gtctttgtct 2460
 cttgccagga tcattttctc aaggaacgtt tgggtcttca ggggaccgtg ctcgacgtcg 2520
 ctctgtggtt tctgcaaact gtgccgggcg atcttctgct ggacataccg cattatatat 2580
 gcgcggccgc ctgcgccaga ccagctgaat ctgctgagcg gcccgaacag caacggatgc 2640
 cactcatggt agatgccgat cagcgagctg taggccataa ggttctgcag ggcgccgatg 2700
 gttccgtcaa tatcttgcc cttgtcgaga aagcctaact atctgtcagc atatatccat 2760
 atatagtagc aatgatagaa ggtaaccaac cgaaacgctc tccgtaagta atctctccaa 2820
 taacgtcaaa cgcatagaac tgaaccact ctcccagatt gaacttgacg tctcgggtccg 2880
 caaactcgcc cagccggtcg aagaagacat ccgcacactg gtccacgaac tctcgtagt 2940
 gcactagcga gctcatcgag tagagactcg agaacctctt tctcgtctcg cctgccgcga 3000
 cgagtacatc agcacgcccg ttccaccaga catccaaagc aatcaatcag cacaagacaa 3060
 caaaataagc ataccatgtc tcttgatata tctatccgga aacagcgctc agcgtgcgg 3120
 atcaggatgc ttccagcctt cataccatgc tgactttgca aacttggtac cggaaccgta 3180
 gatcgtcttc agtgccggtt ggtcggtgat actgtagtgg tctggcgcaa tgcggacaac 3240
 agggccgtac tgcttatgaa ggttgacatt gtcttcttcg aagtggccat tccataaccg 3300
 gcgaaaatac caaaggcgcg tgaagcgggc ccagaacggg ccagggatgg agtagaggt 3360
 gcgtgttctg tagatttgtt aaagaagggg agccagatag cgggctataa ggaagagggg 3420
 agggagaagg aggaaagcga ggaggtgcat tctgggaaag tatattgatt tatcgatcct 3480
 gtatgcctga tatgggtacc aagttgtatt ttataagcag gcttgggtaa gcacgagctc 3540
 tgggtgtgtc tgatactgtc agcgttgccg gagtaagcgt atgcagatca accccgcccc 3600
 caccgccact gcggagatca taacgatcgg gatgcggagt aaaacatata aaagcttact 3660
 agaggactgt gtgcagtgtc cagtttctac ggagtataca ttggctgtgt gtgtcgggaa 3720

gtggagggag aattgagcta aggatatgac aggaatgaga tcatattccc aacaatctga 3780
 cgtctcgcta accagtaaca ccatatccat atttcttagt agagtacaaa tagaacatta 3840
 tcataagagt tgctcagaac agcgtgcaact gagtggagcg cctgaaaact gagtgccata 3900
 tagagttagc gccattccaa ttacactagt ggggtgggaag cagccacgct agccctccgg 3960
 caaagtcggc accgacacgc ttatccacct tttaaggacg gcgatcgccc cagagtccaa 4020
 caatgcccac cgacaacgca aggccggcaa acaccgccct gacacctgt aggcggcgct 4080
 ccgtctccat ttccctccgc acaagcctcc ccgttgatat cacctttctc ctccggcctca 4140
 acgacaacaa tgctgtcttc cttctttctga gacttcttgc ccagtagaca tgaatatccc 4200
 gtatcattca cgacactgca cacccaagcc ttaaagccac tctgtcggtg gaaccagtag 4260
 tcgacgccgt aggtgccaac cgtagacatc agcgtcatcc agagcaagta tggatgtttt 4320
 ctgtgtcgtg gcgagatgct gtacgcgagg aggaggcaga tgttgagat gttggcgagg 4380
 cgcaggcggt cttacggtta aggcgcttga cttcggccag ggacttggac gcatttgtcg 4440
 aagtagagag gagactgagg gaggggaacgg cgatagtaga cgcggagtat gagaggccct 4500
 agatgctttt agcgatggat ttcacggggc ctgagttgag catactgtta acaggccgag 4560
 ggagatggtc ccgacgaatt tggagacggg gatcgggcag gccatggcgg gccaaaactgc 4620
 ggctgggcgc aaagacggat tctagctatt atcctgagtt gtatgtatcg aattggagat 4680
 gggcgagagt cgctagtgtt agttgcgtat ataaggctga tgggagaaga cagaaggacg 4740
 gtgcctggcc tgatcttttag ttttcgatgt tttagaagtt tggtgacgtc tttgaaacct 4800
 gaggcagtaa ggcaatcaac ttcacaaacg aatcagagca gcggatttgt caaatcattt 4860
 gcgctccctc taggccagcg ggaacagtaa tggcatgtaa taattgatag atagaccaag 4920
 taaaaactag ctagcacaca agttataatc atataaaaca agatctgaat ggtacctgta 4980
 tctagtttga gtattggcgc gttgaattgt gcatcacggt tatgcaaatt atacgattta 5040
 ctgataagca tcgactagcc cgattcgggt ataccgagg ctccgataac cgcggcagaa 5100
 gacgaggaga agcgagctgt cagcttcaac tcttttcagg tttatgccca tcctacactt 5160
 gcctcactact cattcctttt gatttctgtg accctgcag 5199

<210> 3638
 <211> 3443
 <212> DNA

<213> Aspergillus nidulans

<400> 3638

ctagtaaaag tcccaagacc ggggccggtg cacggatttg tggccgatga tacctctata 60
gttttgtcta tggctttatg gcactttctt ttgaggggtc caaagagggc cggggtggga 120
tggggggtcg aaggaagtgg aagatggcca tacattccta taaaggcccg tccttgtcag 180
ggcatttgtc tggagtcagt cctgaaggca agagcaaagc attgcgctgc cacttctgat 240
atatcagttt ttaccatatt tcctagtctg actcgtgctc tccgtcgaat cgttgccttg 300
taaaaatgcg ccttacgtct ttgtttccag ccttgagtct ggcagctgag cttgccagtg 360
ctgcctatgt gctgcaggac gactacagcc ccgatgtgtt tttcgacaag tttacattct 420
ttacagatgc tgatccgacc cacggccatg tcgactacgt tgatcgaggc acggcgcaga 480
gcgcaggcct aatctcctca ggcctcttcg tctacatggg cgttgaccac accaacatcg 540
ccagctcggg ccgccaagc gtgcgctctt caagcacgca gacctaccac cacggcctct 600
tcatcatcga cctttcacac atgcctacag gctgcggtac ctggccggcc ttgtaagtc 660
atccgacact aacctatcaa atccatttca acagaaaca gggcactgat agactacagc 720
tggattctcg gcccggactg gcccacggc ggtgagattg acgttattga aaacgtcaac 780
gtcgcaacga acaaccacat gaccttcac accagtgatg gctgcacaat cgactcttcc 840
ggtttcacag gaaccctgct cacctcaaac tgcttcgtca atgctcccgg ccaagccaac 900
aatgccggct gcggcattca atccccgac agcaactcct acggcgctgg gttcaattcc 960
aactccggcg gcgtctatgc caccgaatgg acgagtgacc atatctcaat ttggtttttc 1020
ccgcgcagtt ctattccctc tgatatcacg gctgggaatc cagatccgag tacatggggc 1080
acacctgcag cacgatttgc agggaaactgc gacattgagt ccacttcac agatatgcag 1140
attatctttg atatcacgtt ttgccccgac tgggcagga atgtctggga aagcagtact 1200
tgcgcttcgt tgggtagctg cactgattat gtgtcgaaca atccagaggc atttgcggat 1260
gcttactggg atattaattc tcttaggggt tatcaggatt cggcggtgc gaagagggat 1320
gagattgagg ggcgggagaa gacaagtgct aaaggttttc cgaggaagtc gatgagggcg 1380
aggagagacg ctggattata gctctgagat gaaaggacat tatctttcaa gtatatatta 1440
gcacatacct ggtagtttg aggtcctgtg ggggttgtgt ttttgaggga tttgctggga 1500

tctggagact gtacatattt tgagttaccg agaaggaac acggaccaat gtttatggta 1560
aatttaaacy cagcggtagg tcgtatcggg ataatgata tattcaacta agcaaagca 1620
ccaacgaatg ccattaaaag agcgccagcg gcaactgcta tacacgcttc caagcgtcgc 1680
cggccccgta gaatcacgta actttcttca ctcaagaaat cctcggccaa gagctctacc 1740
aagccggcaa atagcaatag tccactgctg atcgcgttcg tgattccac catgagaaga 1800
ccagtagcac tggctgggtc atagaaatta tgaagaacta gaccaatggc ttgaccgatg 1860
ggggtttag tcccataggc tagggacatt agccatggct tcattgatga cggaggaaag 1920
agatccggga ttagagacgc aatccgagag cctaaagcga aaccctcaa tgtctgatgg 1980
aagcagatgg cgactagaag aacaatgaaa gaggtgcccg tggcaacgct gacagccatt 2040
ccgataaaga tactatggaa aagtatacca gcctcaagga ggagacattg caagagctga 2100
cgggtgggggt tttgcaacgt cttttgggg tctgtattgt catccatgtt agggccagaa 2160
gagacttgtg ctggatagcg ggaactcaag ttggcgcgaa caaccggatt cctgccttct 2220
ccaagtgcag gaagagcgcc attcttaata aaattcgttg aagacctgtc caggctagat 2280
tcttctgttg agttccttg catgttcctg gacgcagagc tctcacgcat tgccgaaagg 2340
tgaatatcgt ctactgattc acttgccctg agcctcgagt agtctgaatc gcgatcgcca 2400
ttggcggttcg cttcactaat taattgatca tactcgcttc catggacatg gcccgcgctt 2460
ttcatggcaa aaaacatctc caccagaacg acgcaaaga ccgagatcat ggccacaaag 2520
ccaggcatgg cacggtaagt ctgcctccag aattggggaa ggcatggatc ggtaaggaa 2580
acaaatgccg ttgggagtaa atgaacgaaa gccgtagcaa tcagcacgcc cgtcccaaag 2640
tgtcttgata agaataaaaa tcgccgggga ataggaagcc gcggaaaccg gcgagcgagg 2700
atggggaatg aacaggcttt gataatgagt ccaaatagtc atgaccaatg agtgaaagac 2760
ataccagcg tgcttagcac taagatgaga aatagcgcca tgacatggag cgaagtgtta 2820
tacgcgcctt gtttgatcga tccgcatgaa gatttgccat cgctcgaatc ccgataaatg 2880
tttcgtcggg gttgctctc ttggggaaga acgacattcg gtatcccaa gagcgtcggg 2940
gtactaactt gtgactctat ggaagcttag gatcgtaaca ctgaagctgg tgagggtagc 3000
ccttgcaatt acttggtac tccatattcg catggccttg tttgtgttcg atctttggac 3060
ctttaggctt tggacatctc aataaccgta agcggcttcc tggccaaagt gtgcaaattt 3120

gtgtgactag gaggagtgt agctcatgaa accaacaact atagccaagt gtttaagtca 3180
 cttgagcgtc taagcaagcc aaggacaaat cgcattgctg caaagaaaaa aattgttctg 3240
 accgagcgaa gtccaatgct gttgagaaca cacgttgctt aaagtcgtta tcttatcgat 3300
 ctacttaatc tagcttaata agcatcctgc tccgagccaa tctttctaac caaaaattgc 3360
 tgggtgagccc gtcaaaaaca caatgattag tcccacgaca cacaaacgtg actctgagct 3420
 aggcagcgtt tataaacaat gct 3443

<210> 3639
 <211> 2161
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3639

ttcgtcagtg gatgcgagtt tcacctgttc atatttccat tattcttctt cgccgaacca 60
 cgcataatttc tgaattctta tttctctcaa attctacggg cggcatggtg tatttctgtg 120
 gtatagcacg ctccggcgta gggcagctgt ttttactggg gaattctgtt ttttattaga 180
 cgccggaaac cgtactgggg gttgcatttg tttctcacgg tctccaatcg atcgcacagc 240
 agcaaataac acaaagctaa aaagggcgac ggaacgcatt ttcattggagc agctcactct 300
 tccccctttt tttctctttt gctcactcc ttcgtccctt cgactccatc gtccccctac 360
 gtgcacgcga ttataccgtt ttcttccctg tcaccatcat gtctgtatat tggaaatcgt 420
 cctgggtctga cgatttgctc aggttgacat tgacaccaac agcattccat ttggactttg 480
 aagacatttg cgtattatat cccgaaccaa gcggttattt atttatccta gcaaagcaca 540
 taaaaaaata aataaatgtt tattactact cagtttccat ctaagcaaac ccattcttaa 600
 catagcttca cttgaacaga gacgtatagg tagctgaagt gctagacggg actggtacgc 660
 atgccatgca caccgtactt ttgcacattc agcacaatag accacggtac ttgatacgaa 720
 ggacttaacg tacataaatt ctccgactcg gtctcttcaa gtctcctccc atacatacat 780
 acaaccagcc tatagatgca gagttcagta tggagtacag agtacctgtc aaaagacgaa 840
 ccgaaacgcc acagcccaca atcacaatcc catttttgaa accatccagc cagccgccag 900
 ccaccattca gccattggc caaattttgc tgatggaaga tatccgtcga cgctttacgc 960
 ctaaggattc agaaatcctt ctccggcatg aggtatctta ctgtactgag tacggagtgc 1020

caagtgcataa ggtactttga ctagtatgta caggaacata gctggggcta ctgtagagcc 1080
 eggctacgct gacagagctt gtacactcga ccatattacc taggcttagg ctaagatgaa 1140
 ggctcgaaat aatacgttta ctctgtgect ctctttttgt ggtgcttatt gatcaaaccg 1200
 ttgtattagg gaaatattcg gcggagaaaa caccgagaga ttgttttgat attcaggctt 1260
 taaaaaataa tggtttgtct ttataacctc atgcaaggaa aggaatgaga ttgtttattc 1320
 tacgtcacat acatacccca aaatcactct ttaataacct ctttcaaacc agcaagcaat 1380
 gtttcctctg ctcgatcaa ctcagagacc gcagatatcg ataaagaaga ataatagacc 1440
 taagatactg gttgattgat gggtgaacag cttgtttggg gggagttccc cttcagatgt 1500
 caggtcacgt ataacatgga ctgcctacct atctcttgtt tgggagagtg aacatgatag 1560
 gcaagttaaa gggagggacc gactaagaga tgcaggtttc gcgcggtctt tcgtttgcac 1620
 aagccgcata cgctatttgt gttcttgact agtgtagatt agcatccaaa actatatcga 1680
 tccaaaacga tgggtggcac atcgcaggcc tcttcggtg gaagtcgtaa gctaccacgc 1740
 gcattcgtct atgaaccgct gagatcgacc gacacagaga agtttacgtc tcggtagcaa 1800
 ccgatttgag ccgtcgggtc aagtaagtca cacctctcgc caaacggtat acagatatac 1860
 tacatggaac tatgaatttc aactttcttt aagccactgt cggactgaga tctaaactcg 1920
 agctaaggcg acaacaaacg ccagggtggca caaaagaggt aggaccaaga caaatttcat 1980
 aacatagtca aggcttggga atgggaagcg atccgatggg ggaggggtgg aagggaaagg 2040
 tattctttga gacgaggtaa taggcaaaat gtaaattaaa agcgaccaac ggaatatatg 2100
 aatcgacgtg ccgcggatgg agcaaccgat caccagccat gctgtcatcg taggaagaaa 2160
 g 2161

<210> 3640
 <211> 6833
 <212> DNA
 <213> Aspergillus nidulans

<400> 3640

ggggtaaaca aactageggt attgaatatg aaaaatatat caaaatgtcc tttacaatt 60
 caacccagg gcgttatatg tcatattgtc aaaaccatt ctccaattga acccctaggg 120
 caccctagg ggtcctcatg aaagctcaaa gccagtccca ttcaagttgg cggaataaaa 180

tggcgcattg gtttccactg gacgggtttcc aagggccatt atcgtaaate ctaaaccggc 240
 gcaatgttgg ataaggctctg gataacttga accgattggg caccgatccg gataacctgc 300
 gaatcgctt gatgcgatcc cacgaattcc actccaccac cgagatacac cagaacagag 360
 gctcgagatg tgtttccgag actgtgtaat tcccatcggt ctacttcaga attccgtaga 420
 acaagcatca agaagaataa tctcccgtag tcatccgcta gcaaccatct ctggctatcg 480
 acctgctccc aggccacgaa aattgtcgct tcttcaagag gttgtgatac gatttcattg 540
 ttgtccgcat caacgtattt gattgacgtt tcaccagta taaggaggcc acctgcggcg 600
 gctattagca aactccagat agagcctaac tacagacaaa ctccaccgagt ggagcaggaa 660
 ctggtatgag atgggatgcc ccaagggtcca gttcctgcgc ataatccgca atgcttgtaa 720
 attcagactc agcacctgcc gcggtgctgt acttcaactc acggaccttg agtttgacct 780
 ttttctggtt gtcctcgta aatagcgcca accgcggcga accagcttgc acatgcaaga 840
 aagcggacga gcgcacgaaa agctcatcaa tccgagtaat gatcggttca cccagctctc 900
 caattcgcg agcatcgga ccagtaggca aagcgacctg tcgccctctc ctcttgctcg 960
 gcagttgtat aataggtatt accacgatca tgccatcgta gatctccagc gtcataaacc 1020
 ggccgcttgg atcgatcatg caccggctcc ccgttcgtgc atcgcgggaa gacggatctg 1080
 cgatatcgac ataatccctc tccgtcctga cttggttccg tgcactatcc caggagagtg 1140
 tgaagtatga gtagcgatcc gtaccgacga agaggtggtc tgtcggcgag tttgcgggtg 1200
 cggggagaca tgctagcatc gttactctgg cgaatatcga gcatgatgta acgagggcga 1260
 gcccatcggg tgtgacggag tagaattcga gttgatttgc ttttctgtag aatatcaaag 1320
 tgtcagcaaa gaacctctaa tctgcggctc cagagttctc atcgcgagat tctgggtacg 1380
 tacgcaacta ctaggcactc gtcctcagcg ttcaagaaat gcagcttcaa tgcataccga 1440
 atgctgctgg cgcgatgaat tggcgcaatg tacgacatct ttctaaaagg aaagtgtccg 1500
 gatcccaacg ttgcgtttca gggtcacctg cggggaagca cgcttatccc aaaaacagga 1560
 aggagaagct gctcggaagt gaaagtcgac ctcaagaaag catctataat tgcaccgtcc 1620
 tggatcggga ggcgctaaga ttggggcaga taggacacgg tcgaaggaac tgtggtagag 1680
 aaagatgaga ggtctcgaat atgcagaagt tccctgggcg ggcgtttatg cagaaattcg 1740
 atgacgctcg ctgcggactc ctggtcttaa ctccgcgcca gcctatttag acatttcaat 1800

tcatatattg atcattacga ataactcaac tgaacaatct tggaacttga aaataaagag 1860
 aagtcttaat agatgactaa gctgtgcata aagtattaat aatgatactt gactccgaga 1920
 aatagagttg cgatcgtagg gacattctgt cccttaacag cattcgatcat accgtctatc 1980
 acgttcatac agtgtcagaa ctctcttttgc ggtgggtcaac cgtgagaggg gtagtagtaa 2040
 agcactaggc atacatgaac cgcgccgaga taaccaaaaa aaacgggagt atatgtgcaa 2100
 aatcagtcga ggctgaaaac agaatttaac atagtcatga cgagtgaatg gtggaaggag 2160
 aggcgaaatca tgaccagaca tctctctggg agctgccact gctacgcata tgcttcacca 2220
 tctctctctcc cttctcggcg ggcagaccac gctgagccgc gataatttga cctagcacia 2280
 ggtaaacctc gcgagccatg ttcgcagcgt caccgcaaac atagaatgtc gccttttgc 2340
 tgagcagatc actgacaagc tcggcatgtt ccttaagccg gtgctggacg taaaccttct 2400
 tctccgattc gcgggagaag gcagtgataa tcttcaggct gtcaccaagt tggctctgga 2460
 aaacctatag caaacatcgt tggtagaacg gctcaaggaa aaaattcctc gtttcaagat 2520
 tacatacctt ccattcatcc ttgtatagga aatcttcgtc gcgcttgccg cagccaaaga 2580
 acaagacagt tggaccaacc ttctcaccac gggcagccag agcagctcgt tcttgaatga 2640
 aaccacggaa aggagcgacg ccagtaccgg gaccaatcat gatgatagga cggaaggat 2700
 cagaaggcag cttgaagttg gaatgtctga catgaacggg aacatgaata ccacgtact 2760
 tgttgccgcg gccgttaatc gcatacgtct ggccatgagg gtcaggcgaa gggtcaccgt 2820
 tttgcttctg cttcagtga aggagatagt tcgtatcac gcctttaaca atatgggtag 2880
 ccccgggcaa gcgggtagac tccacaactg cggatgatgt aatcttgtcc ttttgacga 2940
 gagaagacga ggagatcgag taataacgag gctggatctt gttcaaacc tcaatgagca 3000
 gggagaacgg gacattggag aaaggcttag aggtgatgtc ctgcagagcc tgagcgatgt 3060
 tgaaacactg attggtgatc ttttcatgga agtaatcctt atcgctaccc aggcgtacaa 3120
 tttccgtctt agtctctca tcgggggcaa aagcagccag agtcgagacg aactgacgag 3180
 aaacaggagc acagacttcc atgtagtaac ggacggcggc atcataggtg gtaggcgtag 3240
 ggataggaac tttggcggtg acatcgattc ccttaatatt gatgaccgag tgacgttct 3300
 cctcaagacc aaagacattc aggaaccgat ccacctctgc gcctgcgttg gtgggcaaaa 3360
 tggcaatatg gtctccagtt tgataagtga ggttggttcc agcgatgcta atttccatgt 3420

gcaagcagtt gcggtctttg acggtgaaca gctcacgaga ttcaacaatg ggtgcgatgt 3480
aggggttggtg cgcagagtaa ggaccgtttg gttggccttc aagatgtccc ttggtaggct 3540
caccgaggta aacggagttg tctctgggg tcaatgattc gtcttccgta acacagaaaa 3600
ccggttcata agaggcctcg cgctcctgca agttcatagc ctcagaaagc gcagcccaca 3660
taggttcctt ccatgccaaag aagtcttctt ccattgtacc agcgccatca tcacctctc 3720
cagcggagcc aattcgttgc gcaccgagtt tagtcaaggc agcgtccact tggcgaacca 3780
tggcgttgta gtgctcatc gtgttattac ccagaccgaa agcgacatac ttgagggagg 3840
acagcggctt atcctcagcg gagccaccac cctcgaaact cacgtcgtcg ccagtgatga 3900
actgatagaa ttcgacagcg ttatcggtag gctcacctc tccataagta gccagaacaa 3960
aaaacgcaac cttgtcttcg ggaaactggc ccagattctc gtatcgtac tcttcgatgt 4020
cggccaccat tgtcttgagg ccgaatcgct gagatccttc ctttgccaat ctcgaggcat 4080
agtcctctgc cgttccagtt tgggatccgt aaaagataac acagtttttg ccagtttcgt 4140
ccattttctc aattatgttg cgagacttgc cagccttggc cacgccgttc atggccggtc 4200
cggaagacgc atagggatct ttagcgacag cccagaaggt gcccttgggtg aagtaggcaa 4260
tgctaccgc caagagcacc gcgaggacaa cgacatcaag agtatcgagt tgtgccatga 4320
tgcagctcgt ctgcgacggc cgcaggaact gaccgaaata ccgctcgagc taagagaggg 4380
gcggttaaga acacgacccc tatcgtgga ccacgctttg ccaaaagcag tgcttggttc 4440
caatgccgag aggaaaagag ggatgaagag agggagaaga aatcaaaggc aagcctgaag 4500
agagagaaaa ggccacgcag aaggtaagaa agcggagaga gagtcggagt ccaggtgggc 4560
gttcttaagt ggcccgcata agacgattcg gaagacggaa agtcaatggg atgcttgga 4620
tggggccaaa agttatgact gaaatctaag gcacaaaag ggaccactct caccgagaaa 4680
cggcccctgc tgtcagtgt tcaagggggg gaccgtgatg aaaagtgcgt gtacttggtg 4740
gggccctgac cgacacctcg ttctgggctg atgctctcag ataaaggata agaaagtgct 4800
aagatattct gttgtaattt acacttgac aacagacgca ataccggcg atatatatgc 4860
agttgcagtc ccccgcgctg gccggtgcct gtccgggctg aagtatgact tcggaagaga 4920
agttcggact tgcctcaggg aaaactggag gtggcggcgg agcgggtgct gccaccaaag 4980
cgctttgaga gcatagaccc aagaacggag acgacaacac ccatgattct ggggcttcat 5040

acggggaaat ctcccgaacg ggctgccgag cacactttct agccgaattc cgccttttga 5100
 gtcctccagc taccatgttt acgactctta ggccacgagg cgaattgccg caattgagcc 5160
 cttgtctgag ttctttctgat gatactggtc tgtaccctga taagacgctg cggaccttga 5220
 acagccgacc gcgatgctga tcgttaccgg catgtgacct tgagatatgc gctcgcaagg 5280
 gcgtgacagt cactggcagg aatactttgc gccagttcga taaccctgga aactacctg 5340
 ttctgaagt tttttttatt ccgctctcgc acgttgtttg atagacgagg ggaattccag 5400
 tgtggctgca tgggtggtatc cttgctgggt cagaggacgg acaaattccg cacaattcca 5460
 gtccaaacct agcgtacagt acattgtgaa gcacgatgac ggcatagaa acacattccg 5520
 cggaagatt gatcaagatt gatcgactaa aaattgaata aggtgaaaat agtattgcct 5580
 ggctggctc tttccactat ttcagtgtg tgtcagatct cttaaagtgtg agatatataa 5640
 ttgatcacag cagtgacct gaggaacct ccaaggtttg cgaggttcag acgcaaattg 5700
 aactgagtat caaggctatc taagggccag aaaaggacca atccgcattg cagtaggatt 5760
 ttccttcgac aaaccactcg tccgtaaaaa aaggccattt gaggtgttg atgtgatacc 5820
 caaacttgat tgcactgcat ctcaaaacta aaagctgcag acttcgggtt tattcaacca 5880
 ttattgaga cgaagccttt atgcttacia tgccgactgc cttagcctcg ttgaagtctg 5940
 ctgtgtaccg cttcatcgcc ctgttgagca acgggatgcc ataaatcaca gtgagtttgc 6000
 tgttgggact ccaatatata tagtgttctg tttggatatg gacaaaagca atcaataaac 6060
 gttgcgttag cccagtcag ccgtcaatcg agttcgagct cccgaacctt atgggagacg 6120
 actttcgaat tggactccca gagacggtta gagaggatca ttaagcacac agatgtgctg 6180
 gactatcgct cgatgctcga gaggacggct gcatgcgcgt acctataatt tcaatgcatc 6240
 agccaaagac catatgctgg gctgaactgt cctactgaag aaagtagctc gaattggccg 6300
 ggtgtttacc ttaagtcgta gatatcaaaa gtccaatccc ggaaccaaga taaccagtg 6360
 ctaacctacc tactattctc ttcattcact ttgaggaaat tgagctacgg ccagctcaag 6420
 cttttgggca tcgcatctta gattgggata agccgaggaa ctcaggcacc agtggccagc 6480
 tccattgaag tagttgtgga ccgtggaagc ttgggttatc gcattcaagg caaccaaaga 6540
 gtcaatggca gtttctgggc ccagttgaat gaaaatttgg cgagaaggat aaaagaaaag 6600
 aaaaaaaaag tgttgcagtt gtcgaactgt ctgaactgag gctgggagtt gacttgttca 6660

gcagggagggc tcgtgctcgg gctcctcaat cgaaccgctg ttcaaagaaa agcttaggat 6720
gctcttcgcc ttgaatgctc cccatctccc aacaccgaca ccccgaactc cgggtcaatc 6780
atgagctgct cacgcgtggt cttttcttca ttcttagctg tcggagtctt ggg 6833

<210> 3641
<211> 1356
<212> DNA
<213> Aspergillus nidulans

<400> 3641

atataatctt caacaacaga taacgcgctt tgcattatac agagcataga tgtttcagct 60
ttaatggcga aaactcgctt atcggctgtg gactcgtgat gtcgctatta tgtgggaatc 120
aagcgccata gacagcgggtg gtcgcgccaa agcatgccgc caagccacta gccaaagccgc 180
tagactcagt acagggagccc ttagtcattt actagggaga gtcgcggacg aacttgctgcg 240
tagtacaggg tcttgattcg agcacgaaga cgccatctac ccgcaaaatt ggggcagacc 300
cttggttgct ggtagcgcgc tctgggattc ggcagaattt ggccccaatc taggatccgt 360
ggctccagca ctgtccctga gccgtcgccc tatggctctg tagccaccgt tttggctgcc 420
gtgactggcc tgtgtcgccc tcagtcacta cccctgaata tggctctaata ccacgctgta 480
tcagagattg ccttgctgaa gtcgttcccc atgtttgaga ggccaactgtg ggttgaaagc 540
tgagactgca gtgtgcctgt gccataatta tgcacccgat aagagatgtg gatttgtagc 600
ctcgtcgcgt tatgcggcat ggatcgccac cgtgagagca agaattgggtc tgcctatctc 660
tgattactat tctgggggac cccgttgaac tgtcagctc aggactcagc gcacgttttc 720
aagatcatct cctttgcaaa ttctgtttcg cttctttact tggagctgtg tggatatcgc 780
tctctcgga ttgctcctag ttcaatactg cttcgcgttg atcattttta cctggctcgtt 840
cactttccct ttttttcaag tctcaatcac tcggctctca gaccgagccc cgtatttcag 900
ccctctaggg cctagctttc tctgggattc tgtgtccttt ctagagatct cctccttttg 960
cctgttcctt ctccaaccag ccaactgtcc ttgactgcca cgttccattc catgcagagt 1020
tgaagcaaac aacctcatcc cttcacactc ctttgggtccg tttttgggtt tcgttttagca 1080
ttatatgagc ttgctttcga tctactagtc ttgggtgcagg atgtcccaag ctgcctatct 1140
gtacactcgg attcgagagg cactcccttg gagtggcggt gatccaaacg tcaagggtag 1200

atcctcggaa aagcgtcaaa tggattgatg tacgagccct taatcctacc tgtttgatt 1260
 cgtctaattgg aactgactcc attgcagggc ctccgaggtg tcgcgttctt cttgtcgacc 1320
 tcacccacct tgatagagct gggatgacaa tgtgtg 1356

<210> 3642
 <211> 2521
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3642

tatagggaca tgggtattgg caatgggaag agcggagata agattaaccc cgcgactga 60
 cctaacctaa taaggaagac ctatcagcgc ttatgtcagc gctccggtag ctcttgttta 120
 cttataccga actcgcttct taattctcga cctcgccccg caggactaac tgtcagctct 180
 gcactgccgc gatggacgat gaaccggata cctatccagc tccgtatggg cgcgcttgc 240
 ccaattgctc caccgccaag tgcaagtga tctttccgag agctgggtga cggtgccaga 300
 ggtaagagca gcgaacctcg agttgctgaa gggcttttga ccaaagatgg cggtttgcag 360
 gtgccagcgt ctggacaaag aatgtcgcca gcctccgtcg cataaacgtc aatcgactcg 420
 gcaatccgcg aggtcaaaag ccgcccgggt ggaagagaag ttggagaatc tggttgagct 480
 gcttcgcgcc ggtgttcagc cccagcagc caatccgatc accaatgctc tgtcgacgcc 540
 agattcctcg ttcgatgtcc ttcgcgataa tgcaacacag catactgtac tcccgcgat 600
 ccccaccacg ttgactccag acacaaatgt cttcgaacct accagtcgat ctcccgcgc 660
 aatctccacc cccgcccagc caacatcggt gcaggccgaa gaggcctgg ccacgttccg 720
 cagccagctc cttccatact tcccgtgtat acatataca ctttgcata ctgcgcagcg 780
 gctctgtgag agcagcccggt tcaattgggt gtggatcatg gccgtcacca tctaactga 840
 ttcgccacgg ccagctttgt gatgataggc tcatagccag cgtgggtgcac aagcgatgg 900
 acgctactcg gcaagcacag acattgacat ttctccttgg acttttgata tatcttggct 960
 ggtactttgt tctttctttg cattcgggtc cgcccactga tataataaca ggtcaaata 1020
 acaagtacac aacatggcaa atctacacgt tttcagccag cttgtccatg ctgcagtata 1080
 tgagctcggg atccataacc cattcgcgaa gcccaagatg atggcgttgt gcgtctacat 1140
 ggaagaaaaa gaaaacgcac cgacccttgg ccagtccttg gaggagcgcc gcgcggtctt 1200

ggcacgttc ctcacacat caatgtatc tctctctcc tgttccactt ctgctgctga 1260
 tctccagaat ctcgactttc gtgcagaaaa cggactcggt gcgctggacc cttttcatgg 1320
 ccgactgcct gcgccaagtg gaggaggagc gggaaatgcat caacgatgag atcctgggtcc 1380
 aacagggtccg gttgcagcaa atcacagata atatcagcat gaccaccggg ctgcctcta 1440
 cctccgactc aattcaagtg ccgcccgcct tctatctccg ctctatgcac aacgagctac 1500
 agagcatcca gccccgcgtt gcggaacagc cacaagcgca tagtatgttt tctctcattc 1560
 tcaattgctg gatgtttgcc gctaaacatc tcagaaatcc tccttctcca ccatcactat 1620
 actaccctca cgctccacga atccgctctt accaattccc ctataaccac cagcagctc 1680
 gatttccagc aactggagca ccactacgtt tgtctcgaag ccgccaatc atggttcgag 1740
 ctgttctctt ccatccctcc ggtggagtac atcggctttc cgttctcgat ttttgcgag 1800
 atggtccaca atctagtcgt tctgtaccaa ctttccattt ttgagaatcc ctctgggat 1860
 gtcgagaccg tccgcaaac agtagatgtg ctgcgggttc tcgagacggt gatccggaac 1920
 atggatgtgg tagctgccgc ggccggatta gaaggcgagc cggagagtga tgttttctcc 1980
 gttgtcgca agatgtataa atctgtgcag gttgggtggg aggttaatct ggcgccagct 2040
 ctgttcaatg gagactttcc gttctcaccg agctttgaac agcatgtcga ctaattgcct 2100
 ctggtattag atgattggtc gctgaagtgt tcgacttctt gtataagata gctgggtgag 2160
 tcgaatctct gcctagttac gtttaatactg tgacttattt tttcgtctgc aatattaccg 2220
 ttgaagcttg ctgtctctgt accagcgttt ccacgaagca cttcaacag acggctcgaa 2280
 ctatcttcca cctattggtc actaagtcgg tacactttga acatgtcggc gatagcttct 2340
 gtggtggcgg ctaatccagc aataacaata actggtccga gagtcaggat agatcgcttt 2400
 gcacgagact gcttcggcaa ctgaagatat tcagagcgtg gtctagccga gaagctgaga 2460
 cctcctgcaa ttctggattt gaaatgcttc tagatggggg gttttgcacc ggcctatgga 2520
 a 2521

<210> 3643
 <211> 2286
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3643

tgagtcgtga ggtttctctt gcataccgtg cgtgcttaat tgtcttacac ggtactcgtc 60
 tccatattac tgtacattcc cactaagagg tttgggcttc tgtgaaactt gcttttatga 120
 gcggggctga ggaatgtttg cctttttgcg gacgttcccc gtagtgaact gggagccctc 180
 ggcagagccc agccacggcc gagtcggctt tggcggtcgg tcttgtgatg attattctgc 240
 agactgatgc actgcagtat tgtgatttcc tattcactgt atgtagacta gacatgggga 300
 tgagaagagg cctgtgataa cccacctgcc ggtactttta tatccgcaca gaatgaagac 360
 ttgttcgttc acgcaagtag atcttcagcc gttacatttg tcactacata caatacaggt 420
 ttaggtcgag aaaaacagat gaagctggta cacacgagta ggggaagaaa gacaaatggt 480
 cggagtgtat cgcttcagag agtggaaggc tcgtctggtt caagtctggt ctgttgggat 540
 ggcgcgatcc aaactagagc agagaaaagc agaggcgagc aggccggatt ggttttccgg 600
 tgcagaaaaa aaaagaaaaa gcaaagcaaa gcaaagggtg accctgtcgg agtatataat 660
 gacaaacaaa ggaaaatgat gaagatcaga gaaggaaggt agggtaaaaa tgaaaagacc 720
 acccagtgtg gcagccccgc tgtccagaaa caggaagaat aaaaagtaaa gaagtatcat 780
 cagacattaa aaggacattt cgggtcataa accatgtcag tcgtttcatc agttaatcgt 840
 aacacagttg ccgtccctcg cccattcgtc aggtccaacc caaatgcaac aaaaggtaa 900
 aaaagtaggg cgtcaaacat cacgaagatc ccaagaatat aaatcgaga aaatagaagg 960
 aaaaaatggt tgtcttcgat cgggtatggt ccgaacaacg ctttcggaga tccagagtag 1020
 tagatgacat tgaggacgcc gagcccttag ctcatatcga actaccctgt gtcgagtaac 1080
 gccgaacgaa ggatggatag agtgtacaga atgcagatgc tctttgtcgg cccgtgagat 1140
 ccgttccaaa gcattatcgg gacgctaata aaaccatatg tacgccgata acccgcaaaa 1200
 aaagtatcaa aacatcgcta aattgtcgca cggatgatgag aaagctagtc gataacatat 1260
 atccaggcga aggaaagtaa gttgttctat gcatgtatat ggcttaagtg tggctatagc 1320
 tggccaacag tcgtatatcg ttagatttgt catttgaaaa ggacgtaaca gtcgagggct 1380
 gagaggtaa aggatcagat tgggtgtttg gaggaactaa tgcggccgaa tgatagctgc 1440
 tctttggatc ccctgaatga aaactcctgg tctactcagg cctgggggga agcctgaagc 1500
 ttattctcgg gcagcagggg cgccgtattc ctggaccatt cgccggaagt cgcgaaatcac 1560
 cttttcagga acacgatccc acagaaggga ccgggagtag acatcagagg tagccttgag 1620

aggcgtcctg gcctgcgcag cattgcctct cattgcagcc aatgcctgct gtagattaga 1680
 aggctgctgt gacttgtagc cggcgccagt ttcataaaaa gtggtgagcg aattatactg 1740
 ctcagcgttg agagcaaaaag cttgctcctg ttcttgctcc ttggtcggca tcgcaagagt 1800
 ttcatgaagc tcgtccaggt tcgatgtcgg tgctgaccct gtcactctgcg ccatctcagc 1860
 accagtaatg gttgtgggaa gcaacccaac ggacgaagaa acaggaggct ggttcgacga 1920
 cgattgcgca agctctggtg gtgacgaagc cagcactgcc ttgagaacat ttgcagattc 1980
 tgcgcggtat tcctcagaga gacgcggaag agagcgagct gggagtgaag cactgttggg 2040
 ggcgatgaag gcacaaaaaa gcaggcacat gtagaaagca ttccagctga atggatactc 2100
 gtttgcattg ttttcggagc ctttctcgtt cgtggcgaca accatagcct gcgaaggctg 2160
 agcggcgggg gcaacagagt ccgtgtctag agataggctg ttgacctggg taaagtcttc 2220
 ccaagggtcg ctctccatgg tcaaattctc aaagtcagaa aactcattgg aaacgttagt 2280
 tctaac 2286

<210> 3644
 <211> 2006
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3644
 atactggcgt aattttattg gctctcgggt tctgtgccct cgtcttgagg acgggtggag 60
 tgctgacgag tcggagtacg aatccggagt tggacctact cggaagggtc ctgggatatt 120
 tgagcatcgt ctactacatg ctgctgggta ttttggttat tcccaaaagg atccaacaag 180
 aggaggaact gctcaggaag tcctacagca aggagtgggt agagtaccat agttcacggc 240
 caggcttatt ccctgggtct tgtagtagtg gcaggagtaa tatcagctct gccagtcgtc 300
 gaccatgttg ttcgctcgtg actgggtgat cgtcgtagtc atctggttga gctgtattat 360
 atccgctact acagagtata gcacatatat atctacgtca atggcgaaag aggtttctgc 420
 ggacgctact agatcatctc tgtaaaattc ttggatagga accttacacg gtgtttggat 480
 gaactgatgg gacagagcta cacggactct gatgctcacc tctattgcgc tacatccgtg 540
 ggagactagg cccaaaatgg gctgtagatc gcctgcttat acatgccttc acgcagcctt 600
 gatctatgtg attcctcaga agctcgcgcc ggtaacctgc actgtatagt ccaaaccagc 660

ctgtacctca ctagacaact caaaggggtt atactggatg agttcttcag gggatttcac 720
 cacaaccaga ctgcctcct cgtctcacc aacgatgacc tcacccttc cgttctccag 780
 atcaacatac cgaaccgacc cgctattcgt gctacggata gcaagggtcg cagtgaatgc 840
 tgccttggag gaaacagtca tactcacact ccccgagcca gagagcgtga cgtgcttgat 900
 gttggctcca aaatactgtg gctggcggtc cgatttgaca gtgtagggtcc catcgctgga 960
 taactcgagg ttgtcatatg tcagactctc ccgttgctgc aggaagacct cattggcagc 1020
 atcactgata tcgacgtacg ccataatgac ccagtaccgc ccaataacct ttgcgatagg 1080
 cgtggcacca accaggcgct gcaggggtg gagcggcggt tcattgctac cgacatcata 1140
 ttgcttggtc agctggagaa cagagtcggt accgaggcct gtgaaattat cgggattgtt 1200
 ggtcatgtat gtgaacagcg gccaggactg gtagtagttg cccgtatctg tcgagccatc 1260
 aacgataacc tggtagctgt cgccaatgac cttttgcaac tcgatgaccg agcttccggc 1320
 ctcttggtta tattgctctc tggcgctcgc gcacaggtca gacgtcatcc aggtatcagc 1380
 gaaccagttc gccagtggct cccaccacgc gccagtcata gtctgggtcta cccagttgcg 1440
 aacgtggtag gtgagtgcac ggccgtactc gtgcaccgta acggacggat ctgcgaggaa 1500
 cgtgtttacg acctgtacgt agctgtagcc cgttgatatag tcagagccca tgacgccggc 1560
 agcgttgccg tcgagagagg caacagagta cacattctcc ttgtaccata tctccgctgt 1620
 atcagagttg gagtcgtagg agaggcctga agagcgccag ccgaggtcag tcacaaagca 1680
 ggtgtatgcg gactcgagca tttgtagtgc gttctccgcg tcagtgcccg ttgcgccgta 1740
 gatgcgaaag cgcgcggagt cgggtgtaggt gtcgccgcca ccgccaacgg agggattggc 1800
 agtgaattca gacggttcgg agctagagtt ggagcttaca ctggaactcg gggaggcgcc 1860
 gggagtggga atcgaagtgg gagttgatac ggaactagta gagatcgtgc tgccaattgg 1920
 ccctggctct ggctctgcgg attggatggg atgaactgcg gtgggaactg gggagccgga 1980
 gctgccagag ccccgagcgc gaagac 2006

<210> 3645
 <211> 2113
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3645

acagaagata ttttaaccca ggagtcacgt gagaaagttg aactcttcaa gcaatactat 60
 ttcgtctgtt tccgaacggt ctatcaactc gacaagacga gcgagcagtt catggagcct 120
 gtgaacttct atatggctgt cttccgcgat ggtgttttgt cgttctcatt taccgagaat 180
 cccacgccc ccaatgtccg aaaaagaatt gggaagctcc gtgactatgt atcgctcagc 240
 agcgattgga tctgttatgc tatgatgtag gttgctctcc cgctttctgc tggttgcaag 300
 cagagacttg gtgctaattg tctaaagcga tgacattgta gatagttttg gtcccgttat 360
 ccgggagatt gaggttgaaa ccgaagccat cgaagacctc gtgtttattg cgcgcatgga 420
 tgacttcgaa tcattcttac ctgcattgg gaatttgcg aaaaaggtaa tgagcttgat 480
 gcgtctcttg ggaggcaaag ccgacgttat tcgtgggttc tccaagcgct gcaacgagca 540
 gtactcagtg acgcctcggg gcgacattgg actttacctt ggtgatatcc aggaccacgt 600
 tgtgaccatg atgtctaate tagcacattt cgagaagatg ctcagtcgct cccatacaaaa 660
 ctaccttgct cagttgaatg tgacaaatct ggttctaggt aacctgcca acaaggctctt 720
 gagcaagggtg acacttatcg ctaccatact cgtcccatg aacctcatct gcggtctgtt 780
 tggcatgaac gttcatgttc ccgggcaaga cgtaccagga tacggatggt ttttcggcat 840
 catcggggtc cttgctgcgg ttgttattat tagtggcctg gctgctcggg tttacaagct 900
 tgtatgagac cggccgttcg caaaatacgc attggttcat gttgacttgg tatatacaat 960
 ccgttcttat gtttatattc tggcaattga gttgagacat ccagtctgta ccatcaatct 1020
 agctactctt tggacactat accacatgcc aaaaaaatg acttcgatat ttgtattggt 1080
 cgtactagcc caatactgct gtactatatt tggaaacaca ggggtgtggcg gtgtagtaat 1140
 ataacttgta acagtggcag agcgccaggc agaaagaatg catatcgtct ccaattgacc 1200
 agattattac cttcccgag tcaggtatgg tagctacccc attcaatgca atatgatatt 1260
 gcacctcagc ctgacagtta ggagtcacaaa gctgctactg cccgaacttt gcgtatgact 1320
 cgacttactc tcttccact ccgcccttta cgtatcggct gccccgcat gcgtcaacag 1380
 tgttgctatc tttcagccgt ttgacgatct ctggttaccg acggtccaac gctggatcgg 1440
 agcacttgac ctcccatgca acggcaaaac gcgcccgcac agtctcgctt tgggtcgaga 1500
 gtgagcgtca ctatctctct tgcggtactc atatccgcat ttgctaccgg cacagacctt 1560
 ggacctctta cttcggacta cggacaaggc cgtctactcg ccaaagatga tacccttggt 1620

ggcttccctt accttcttgg etctttcagc ggcctgggca tagatcgtga gggggataga 1680
 gcgcgtgaac cgcagggtt ggatattctc aaccgggctt ctgacgaccg gcggtctctc 1740
 gggaacaacc ggttcggaga gagcgagatc ttgatgggtg agcttcagca atggttggtt 1800
 gtgccagatt ccacggttg caacagctcc gatgctcaga gcgacaacat ctcgaagcgc 1860
 gctagtactg cagtttacgt atccctcagc atttgctctg cgccaattct taatgagtct 1920
 atttcgaaca ctgcccaggc attacctcag ctggctgttt atgtttcgac ttctgactcc 1980
 cttcaggacc caggtcgcga tcataagagc gatagtggtc aaactgttta tcaactctca 2040
 gagggataca tgagtgcgac tgtaagtgct acatctgagg tgtacattgc tgtactgcgc 2100
 cgagtaatgg gaa 2113

<210> 3646
 <211> 5261
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3646

tcttttcgat gagcgaggaa attcagggtt cgtcgcgggg ctaggatgct cgggcgttgg 60
 tgggaagagg tggtcggttac cgacggagct aacaaaggcg actatctcga caccgtgcga 120
 gaggcgcagg tacttctcag gcgatggcgc cggcggcgac gcggcctgtc gtcaaatcat 180
 attagaatct cgcgaggtag cggcaaagag aacctgctca ccaattgtct ctcgggcact 240
 gcttcggcca ccaccactgc tagccttgac gccgtacttt tcgagatagg tgaagtccgc 300
 atggctgggg cgggggtaca tgtccatggt cttgttgccg tagtctttag ggcgctgac 360
 ct cattgcgc acgaccatgg caattggagt acccagggtg acgccgaact cggttcctga 420
 ttgaatctca actcgggtctt tctcgttgcg cggggtcgtg agggcgctct ggccggggcg 480
 gcggcgggtc atttgagggt ggatgtcatc ct cagtgagt tccatgcccg gggggcagcc 540
 gtcgacgata cagccgacgg agcggcagtg agattcacca taactagaag agtagctgcg 600
 ttagtggcgg gggttggtag gcgtgcttga gaaaacttac gtggtgactc gaaagtagtc 660
 accccacgtt gacatggtgg gcagtggatt gaagtctgag tgcgcggctt caggtgttta 720
 gtctggtatt ctatgctgca agccgtaact taataggagc tcctgttggt tagcgaagca 780
 agcttgaggc aattgagaga ctattggacg attgtggaac aacttatgat gctcaagagt 840

gactcgagat cggaatatt ttcggtgact actgatactc gtttcgggctt agcgccccgcg 900
atcggagctc tgcattgata ccggagcttt caggctgacg gcggacatgt gataagaaaa 960
tcaagataat aattgacagc gccctgacct gtttctgcct ttgagagttc catcaatggt 1020
tctattctct caagccacat gctggaaagc ttaccgcttt aaaaagagcc ggggcggcct 1080
ctttgtccgg ttcaattccg catttagctc tgatcgcttc gcgcaactcg cgtctcgacc 1140
agcttccatc caccagatct accagtcctt ctcgaccgat ccttacgtga atctttcaat 1200
cgagcacttc ctgctagaga aagccccgcc agattcgagt atactttttc tgtacgtcaa 1260
tcgaccatgc gtcgttattg gacgaaatca gaacccttgg cttgagacca accttcaaaa 1320
gtcccataat gatcggaag agagtaccaa acacagtgat ggagcgttac ttgtccgacg 1380
gcgatcaggc ggtggcgctg tctttcatga cgccggcaac ctgaactaca gcgtgatttc 1440
tccccgggct acctttacgc ggaacaaaca tgcggagatg atgatgcggg cattgcaccg 1500
tgtgggagca gttaacacaa gcgttaatga gcgccatgat atagtcatgt cggagtctga 1560
cggtcagcca cggaagattt cagggtcggc cttcaagctg actaggttcc gggggctgca 1620
ccacgggaca tgctgtctcg attcgccgaa catcaatgaa ctcgggtcct ttctccgac 1680
ccctgctaga gaatatatca gagcgaaggg tgttgagagc gttcgggtctc cgggtggccaa 1740
tgtatcctca tcaatggaag atgctccgc tggattttcg atgcaggctg tcattgctag 1800
tgtgatggat gagtttgcc agctgtataa cgctagtccg gacgccgtcc gccgagctca 1860
acgggctcat gctgttgaac ccgaactata cgcaggggac aactgggtgg ccggggctgt 1920
gggtgatctg gaagcggacg ctgtgcctga gatcaagaag ggtatggacg agctaaaggt 1980
aagaatcttc aggtggaagg ctggattaga ttgctgatct tttgaatcag tctctggagt 2040
ggaagtatac tcagacaccg cagttcacat tctctacgta cccgattgag gaagaccccc 2100
gtgaaagacc agcccttcg cttctctac ccccttcggt aagattaaca atatctctta 2160
cgcgagataa taggctgaca agtactagac gcgagtattc ttacgactga agcacggcgc 2220
tatcattgag agttgtatat cgacttcaaa tgatccatca cttgccgcag agcaggcgag 2280
tcgcgtacac gaagccctaa aggggcgaaa cttgcatgag ctgcagccat cgcagtggac 2340
tgaagttctg gtcagtcggt tatccgcaga cgaagaacca gttaccgtac aggagctcgc 2400
aagcttcatt accagcaaat tcggctcatg aacaccacga atgtaagata ggtagatacc 2460

ccaatcccag tcgaggatca aggcataatc ggatgatgcg caaataatgc cactgtatct 2520
 cttgccccgt acatcaagcg cagcagcaaa tcgcaacttg agagacctaa aggggttaga 2580
 ttaagatata cattgaacac cttccatgat atacgatgaa cggacttcgc ccggtgatga 2640
 cacgcgcccc gtcaagcgat gtctctgaca gtaaattggcg acgctgactg gttaacccat 2700
 cgatatatac taagatgggtg atcgtcttag atccagaaag gcatggcaac cgcgatcatcc 2760
 cgtagcgggtt gctgattcca gacaagcaat ctaatctgac gactgaactg cgccgcttat 2820
 cccatctcgg cgctgaaggt atattagtcg catgatcttc atccgacact atttgaggca 2880
 tgaggatctc gaaccggata ggattgcggg gaaatcttct atttgagact ccatactcca 2940
 agcctcgatg cgatacgtga taagtggata atcaccttcc acctatcagg ttgtgtctc 3000
 tgaagggtca gggtggaggt ctgagccctt gttcacttct agagagcaga tgaattccgt 3060
 caactcatag tgctcaaagc gctgcttccg tacttccact ccgtatttag cccccgggta 3120
 aattgccgac gttgtttctc gtcggtcttc caccgaaca ccgagcatga gatagacata 3180
 tatgaatgca tgtagctga gggccggcat ctcaagtatc tgtagattta aagaaccaga 3240
 gcccatcatg tcagtacatg caaacggaaa gaccctact caacctttca gccagtcccc 3300
 ttttcgtact cgcaccgacc tccaagatgc ctgtaaggcg ctctcgatc ctcttatacc 3360
 ccgcttcacc cctgggggca gccgcgtaaa gattggatca tcgaccacca ggtttgatga 3420
 agggggcgca cagattgagg gcttcgctcg tcccttatgg ggtcttgctg cccttctcgg 3480
 cggtggttgt gattatgcgg aagcctctcg atggcgcgat ggcttcatac aaggaacaga 3540
 ccctgagagc ccagagtact ggggggacat tgaagacatg gaccaacgca tgggtggagat 3600
 gtgccaatc ggtttctcac tggccgttgc accgcatgta ttctggaatc cattgaccga 3660
 caaacagaag gagaacgttg cgaagtggct agcaagcatt aatgaacgag agatgccgaa 3720
 cacaaattgg tatgtagttc cccaagatta ctttatggcc gacggcgctc acagagaaca 3780
 ccgcatatag gctatggttt cgagtctttg ctaatctggg cctgcgaaag aacggagcac 3840
 cgtactcact tgctcgtatt gaggtgata tggatcactt ggataccttc catgtaggcg 3900
 gaggttgag caatgacggc cccaagagcc accaccagat ggattattac tcgggttcgt 3960
 tcgcaattca gtttctgcag ctgctttatt ccaaattggc cgcggacttt gacgagcctc 4020
 gtgcggaacg ataccgagcc cgcgccaaag aattcgcgct cgatttcgtg tactatttcg 4080

accctgatgg gaggtcagta ccctttggac ggtccatgac ataccgattc gcgatgggtg 4140
 gtttttgggg tgccctagct tttgcggaag tcaactctcc tgcgccgctc acatggggga 4200
 tggtgaaagg catcttgctt cggcatttcc gctggtgggc cacgcaggaa gacatattca 4260
 ataatgatgg aactttgaat ctcggttact cgtacgccaa catgtaccta accgagaact 4320
 acaactcccc gggtctccca tactggtgct gcttgtcctt cgtgccgctt gtgctgcccg 4380
 atacgcatcc tttctgggag gccgaggagg aagcgtatcc gtcactctca gcggtagcag 4440
 ccctcaaata tcccaagcac atcattgtac accgaggagg acataccttc cttctttcat 4500
 caggacaagc ttgccactat ccggtcagag cgattcaggc aaagtatggg aaattcgcat 4560
 acagtgcctc tttcggtat tccgtgccaa ccgggggcta tcagctggag cagcatgctc 4620
 ctgacagcat gctggccctt tctgaggatg gaggcgacat ttggcagaca cggagggtcg 4680
 tggaaaatgc acgcatcgag taccgcgaga atctgcctgt tctgatctcg gaatggcggc 4740
 catggacaga tgttgtcgtc gaaacgttct tgattcctcc tgctgaagga agcgagaact 4800
 ggcacatccg cgctcatcgt gttcggacca gtcgtgatct ccaaagtctg gaaggagcgt 4860
 ttgcaatcta tggatgccag agtagcaacg gccgtttcct ccaacccttc aaggaacccc 4920
 tcaaccgct atctgaaggg acttcagctg caccacacag tgcacttacg gtttcctcag 4980
 caggagctgt aggtattgtg gaactacaac caagcacaga tcgtgcaggg aggggtgtct 5040
 tagcggaccc caattcgaac cttcttcaact gccgtactct gctggcatcc ctaggtgctg 5100
 acctgaaatc aggtacgcag acctggtttg tgacggccgt gcttgctttg ccggcgcatg 5160
 tgaatggcta tggcncaata ctgaagaata tctgatcgat agatggaata acggtcagat 5220
 atttcgggtt gttaatggaa ctgtgagagg tgagcccaat g 5261

<210> 3647
 <211> 1941
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3647

gtggccccgcc agtttcgaga attgtctgaa gacggaagtc cgtaagatgg tgcaagaccg 60
 tacggacata gtcttggtca tagatgcaaa aaaagtggcg gactaggtgg ccgcatattt 120
 catcagtctc attctactgg gagggggtaa aaagagagcc aaacgcactg aatattataa 180

ctgtcgtgat ctccacccttc tcgaggatca ggtccccgaa acgtactggg ttgccggagg 240
 cggattgcag ctcgagggttg tatgcgtcgc gcagatcgga ggcgccggag aggatctctg 300
 gggatctggt gatggtaccg ggcattggcta gcatgtaaat aatttatatg aatatttcga 360
 tctaaatctc tagccatctt gatggacaca cctgtccttt atataggatc tgttttagat 420
 caactggcta gaaccttcat gagccgcttc ctgctgctct ggcgactcgc gtgatggaac 480
 gaactctata cagaagccgt tccatggctc tcacggccct caaaaatcac attgatgtca 540
 ttgtcatata aacggaaaat gtgcttctct gacaatcagt cctaattgtc gaacagcagc 600
 ctagatttcg ttggcggttcg taaccctaac acccttgata gctccataat gatccaacta 660
 caatgagcct taccacacaag gcaagaaccg gctatgaacc cttggtagac ttcgttgttt 720
 ccctcagcaa gactgatacc cacttacaca tgtacagaaa tagcacgctt gctcggttcg 780
 actagggcct catcgaaactg gatccgtccc tttgaaaggc gactatgatg ttggaggcgc 840
 atactgaaag aggccatggt catcgccctt cttgatttcc gcaccgggtt tctgccattt 900
 ctcgtaggat ctaccgtcgt cagcaccctt catcaagagt gtatatctag atgatagagc 960
 agggcaggat tagggcagga aacataactc acagtgccca cttggctagc cccaatagca 1020
 acaaagagca cctcgccgaa ctctccgctc tcaatgacca catagtcctt tgcattccgc 1080
 gtcagaatat cgacgccgct ccggatagcc agcggatcaa cctcatagta atcccccggc 1140
 atactgcgaa agaccttgat ctccctgaa accggactat ggtagcgatg gtaatcctgc 1200
 ggggaaagac ggaaactcgc aacggggccg tctccgaact gcggacccaa tttacgatcc 1260
 atgacgaggt tcgtgataga gaagtcctcc cccttgatcc agatcttctt gctctcggcg 1320
 acgtgctcgt agaccacgac gcgcgagtc gcgacgaca ctgcagagga cgggttctct 1380
 gcctcgaata tgggccgcgt tccgggcttg tgatgacgga cgaagaactc ttcgaatgag 1440
 cgaaaggctg ccgggtcgga gggctcgaac tcgtccatgt tgatgtggaa gaaggagatg 1500
 aattctcgga tgcgtttggc cgaggctggg gctgcttctt gcttccctgc tcaaacaaac 1560
 tctattagct actccctgtt ctttccgtt cagcctttgg gattgagtag cctctttgat 1620
 cgcgtgtta tgcatatata gtctcatcgc gtgcgtcgta tcgagccatg ttgtcagcgg 1680
 gttgaagagg aggaggagtt tgagtttctt ccagagaggc tgctgttcgc gcatatattt 1740
 tccggctctgc tccactgtta aagatcatta caaactgact atattctttc cactctacct 1800

tgcggtcgat ggtgagccag ccgacttcgc ggttctggat ctattcatca tcttagctgc 1860
 ttctcttga taagtgaatt gcgcgtacca gcttggccca gccgagaagc cagtctaccg 1920
 cggcatgaac taatccgatt a 1941

<210> 3648
 <211> 1271
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3648

aactctttta acaaaagcgg acgttgcagc tggaaaggac ggtagcggaa aggatggcat 60
 ttgggaggtc gacgctttgt cactggcgat taagcaaatt cccggcgttt tagatgttgg 120
 tatcttctct ggagtgaccg ggctcaggc caggcgctcg gcggcattgg aggccagaag 180
 cccgttgcgg cttacttttg gatgcctgac ggctcagtgc aggtcagaaa agcggacgct 240
 tgaggtatct cgacaatggg gcatataaga tcaaattggg gataaagtaa atacgagtaa 300
 tacgattaga ttctacatag attacatcaa ttagtattgg tttggagcct ccaagttcct 360
 cgagaacttt acgagtacct acttggatta tgcgccattc ataaaatgtt agtttcgtga 420
 ttatgctcca ttatctcgca cctcttccca tagctagcgt caccgccagt tcgcgtacat 480
 agttcctgac cgtcccgta gtaagatcat cctttccatc ctcgatcctt gggctgatgg 540
 caattgcgag gtatttccca ttagagctaa atgccacagc cgctacactg gaaggatatt 600
 tctggtactg tctgatcctc ctctttgcca tgccatccca aagggccacc acaccatcac 660
 cgctccaga tgcgaatgtt ccatgaattg gatggaaagc cagcgagttg acgggataca 720
 ccacatcgac atcatccgac gtctgtcgat ggcatttgaa ggcgtacttc cgcgcttgcg 780
 actcggctga gggatcaaac cactcaacag ccaccgccc ttcgatgcta gatgaagcgt 840
 atccggcgtc atcgggcattg caagcaacgc agcgcgtcat aaacttcagg ctgctttccc 900
 gtcgctgcca tggctcaact tcaaccttgg ccggcgccac accttcttcc gactgtcccg 960
 ttaagagcga aagtgatttt agatcgtaaa tgtgtagggc tcgcgaggcc atgccacaaa 1020
 caagcttcga tgctgtgaga gacatggaga aagggttga ttgtaggtgt ttgaaatct 1080
 ttatggagaa cctcttcttt cctatggcat tgcacatcta atctattctc ccatttacat 1140
 gcttatccct ccgtttctct ctccaatcaa tactttctgc ctcatcat aactagtaac 1200

atccatttct ctcaattatc ctttccaatc acctttgata ctcaaatact cctcttatat 1260
gtcaatctca c 1271

<210> 3649
<211> 1230
<212> DNA
<213> Aspergillus nidulans

<400> 3649

aggcctttaa ctaagatatt ggctatctta gtgaggggga atgattgtca tcagcaccaa 60
ccgcggctcc tcggagccct tttcaggtgt gagattatag gacgaaaatg tccatgtggt 120
gggctcctga taggatgaca gaacgcctaa tgctgatccc tgcctccaca gattcgtcca 180
cttgcccgtc ctgcatgatt gtcaagtctt gtgcaacctg tgagatattg cacacctacc 240
gtcgggtggat atgagacgcc taacatggtg caaccgcaca aatcgggaag ggaactaaag 300
accatcccta gtcagctgtg aatgaggggtg gtggggaagt tttctatttg actttgcctt 360
tcagaggaac agctgaaaac agtcttattt cggtttacat acctgattgt cctatattga 420
gtcgatgctt acccttcccc tctaggtatt caaggcctcc tcgcgcaatt cgccaacaag 480
tgtccagcta ttgcagtcag gtactagagt cagctaata ga gtcagcgaat gtatttttgt 540
atccgggcaa gtgctctctg gagggacttg gtgggataac tttataccag tgtacgttgg 600
cccgaacgat tttgattcac cagcttgacg acatcaagcg atgaacgagt ctaaaggaac 660
ctctgcccct gaatagaatg tggatctcaa agccatagag atagttgtag gtctcaatga 720
aagttgaggc tgaataagaa tttaacgaag aggtggaaaa aagggaacc ccatcatgcc 780
cacatttaag gctgtctagg ctcaagccag acaagcacta agtagtcaaa atagaacca 840
tagtaatatc tcagatctag ccagctagat aagaccagaa aaaggcaagt ggttcctatg 900
tatttctgta tggagccagc caccagggta ggaaggcgtt tccgtcgagc cctagcttat 960
atctacctag gtttaccaga cgattaattt accctatctc gtctatcctg ttatcaccaa 1020
gaccaagact ctaccttctt gtttctacga ctgatcgca tacaccatt gttctcatct 1080
gcattgatat atctttccca tatacgacaa tgtccgacct caatctaaac ggtatccttg 1140
tcgccctcgt aaccttctca ctgacgacaa aaccgccatc gacgaagcca gactagatta 1200
catattagca catgctcgac gccggatcac 1230

<210> 3650
 <211> 2193
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3650

```

taaagccgat tgatatgttt agtcagaggt attaagatat gttcgacaag acctcggtaa 60
ggcgcgattt gatacttaaa tacctggagg acacttgcca gaataatgat gttgtccttc 120
aggggattac aggttaggag aatgcaggac cccgtttcca taccggccgt tatatgtaat 180
cccgcccta tcggatcggt tttaaatccg ggatgtcgtg aacaaggggt gatcacacat 240
acaattctgg gtgcaggtgt ggcactacaa gcatgcgggg gtaaagctta aggtcaggag 300
tgttttttcc tatagtctcg ccgttagtgt aagcccagga tccagtatgc cttagcctta 360
cccagctca aggcatttgt gtccaaattc gggatgataa cccgcgcaag gtatgggacc 420
tgtgagcgct ttctcgccgg aacctttacc agggttcggg tatgattgaa taacaaatta 480
ggagactgcc ttaggcgttt ttaatgcgcg gagacgtcct ccgcgaacgt gaagagtggc 540
tatagtcact gactcggagc ccgcgatact gtccggggct tagcgagccc gagttatgcc 600
aaggccgcat tctcatagcg gcatcaaggt caaaaaagtg aatggcgaca tcaagtcatg 660
aattgagcca ttgttcggat cccggatgct cgagattcaa gtccatggac tgttctctgg 720
agaaaaggcg agttcttggc gtggcataac agatcgccgg gagaggcttt gtcaggggtcc 780
cgtgaccgca ggatacagtg tactcgtggc agttatcaca atgtcgacca tgcctcgggc 840
ggccatccgc atgcaggggt agagaaaatc tgcattagct tggcatactt tacaatcaag 900
cttagccaca ggaaattgag cagcctgacg ctattgtaga tcgctagcga acctggtagt 960
gctatcgcga gtcccaacag tttagacggc agggcgtcag ccacaccctg cggatcgcta 1020
cgcgcgtttg ttactgctct gatggggcac gcggagcacg tcgtcagcaa gggagacctg 1080
gagcggcaaa gctgaagaat tagaatccaa tataagaggc ttaggagcat aaaatagtat 1140
cagttatgat ggtgcctatg ccgtgggtac gcgtacggtc gttggcttga accttatgcc 1200
gagcatgtat agacacagac ttggtataga cacagcgag agccagtcag cttagtgtta 1260
ggcactccgg cgaaatcccg tctaagactc tgggttcgat agtttacgtt agatagcctg 1320
ggttcaatat aggaggttgc tttctttgct gtgttcctag gtcacatggt ctactcgatg 1380

```

atagaacaaa agacccgatt gagaattgtg aatgaaatgt ccagtggcaa tcggtgacgc 1440
 cgtggcaaaa gatgtaaaaa gaccagactg gatcttcagg aaccacaccc agcctgtaaa 1500
 agagactgtg gatcgacgag gtagaatcca gaatctacca ccggccaagc aggggagggc 1560
 agtgcagggg ttactagata aacctacccg tgagtgtccg ccatctgcag tgctgctgcg 1620
 cctcaccaca gacgaagacg gaaggctgtc aatccggatt ctccttataa gaaaggtcta 1680
 taaaactacc tgtctgtttc aatcgaatcg ttcacctta agtcaaagca cattacatca 1740
 aaacctcttt tatcgctttt catcttgtgg cgacatcgct actactatta taacaccctt 1800
 ccctctctc caccgtctct ctacacattc agagtactca agacgtcaaa agcccttact 1860
 cttgaatcga cttacctcgt gattcttatg catcaacgca acgaaatgac gggcacactc 1920
 tccccacaat cagcaccctc tcccccttcc atctcgaccc gccgctcgtc gcggtcctcc 1980
 caaaagccat cactgtcaat cgacctctcc tccctccac cactatccca gccttccccg 2040
 ccaacaaaca cgctcctgat cacagaactc aatgaccttt acctctttca accgtcctct 2100
 ctttctcaga ttcggaact catcgaatcc atcgcccccc taaactcgtt ctccccgctt 2160
 ccgtccttcc gccgcacgt cgcttctttc cgt 2193

<210> 3651
 <211> 7621
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3651

ttgtcagtaa ccaagagctg aatcaaggat taatcaacta tcaggaagc gtcgacgtta 60
 ttaagggcac cgacccaccg aggatggcca cttggatacc cactctttct gctatcaca 120
 gtggtctgcc agtgggtcga gtggatgtta agctcctacg agagatgacg ccctccgcga 180
 atgagtgcgg ccatgaaaca ggccacggtg cagaggcctc cgtaggcata ctgcagaata 240
 ttacaaagtt ggtaattatg aggcgttcga tcaggagacg atgaaactta cagccgagtc 300
 atgctatcag cggctttacg acggtgcaaa gtttgcaaga aaacgccaag ggccggccat 360
 gggcgggggc taaaacccaa tggctgtgct ggactgcgag gcttccagga ctgctagtag 420
 tagtgcacgc ataccttacg tcatgaggtt tgacactctc agactgtcgg gttcaccac 480

gctgaccctc tcttttccct agtccatctt tggatctcgc tcttcaacct ctcacctctt 540
accaggcatc accgctggtg acttacagcc taaggcggtg tacccaaatt tcgagcatcc 600
atcgacatcc cgcatttgag acaaccagtg acgccattgg catgggaagc ccaactctggc 660
catgattgcc agcattcttt accacggtgc gcattcttga tgcaaattgc cagactgcgg 720
ttgttccacg ccaggctggg tctactcgt ggctactcg tgcccttaca ggctcaagcg 780
gtctgtcaaa gccaacttt caagcctcga gtctttcact agatcagcag cccactcccc 840
gcagttatgg agtttgccaa ttctgagctg atccggggtc gaattgcgga gccgtttgta 900
catttagatt gccgacatgt tggtaggggt acgcaagaac gcaaggaaca caagctataa 960
gccagagttc tgggttggtta atgcggtgca agtcgctgca agtcgctgca agtcgctgcg 1020
ttacaatacc ccagcagaaa cgaagggtcat tgtttccttt attgcgattg attaccctgc 1080
tcggcaaatg ccagaagatt tcaacaatcc gcctgcgtat cctcgccatt aatgggtggtg 1140
ttgccatctg atttgcggtt cagtaagaac tcccacaagc atgatccgta aatgcgtgca 1200
gcccggcggt aaggcctgct cccgaccggc caaagtgttg tcgaattcgg cttgtacgga 1260
ccggccgccc gcaaactctg gaaatgtgcc ttccgctgg tgattcctcc gcgtcggaac 1320
aaacttagta gcgcgccggc ctgcaacaca acagcggtgc acgtaaaaca cagcatttgc 1380
atcaacttcg gaatgcgaca actaatcgt ctttctgcgg agcctctccg aaattgactg 1440
gaacattggg ttaaccagac tccggcgacg atatattgca gtgtcacgca gatccagctt 1500
cagacaagtg agcagaggac tgaagaataa cagtttcata atcgactggc tcgttgaatg 1560
ggtgtaatac cgtacgatct ggtccggaac ttgatatagc tgattatgac aacttcaagt 1620
tagtacttca agaatgtttg gtcattggaac cgaatgaata cccctgggcc cctcagcctc 1680
gccaaacggc atcccgttca cccgcccggg agcgagtgtg catcgataat aacatgcatg 1740
ccgtaccata cggcatttct caacattctt aagaatgaga cttgaaggag actttatttt 1800
cggataaaag ctgtaaacc cacccttaag cagaattagg tatttaactg tagagtgggt 1860
tatatcccgg ctttatacaa ctgtctactg cgggtgggtg tttaagtcgg gtagcggcgt 1920
tcaagcacgg aatcgactg gattataccc gttaatcgt atctatagt cactcttcgc 1980
gagccatccg cagaagtcga ctccgttcgc ttgcatgtg cttcattttt gatattgact 2040
ggttccgaga gcgataggtc ttcgcaaggt ttcttacctg caataggaaa tttgcagaag 2100

agaggtgaat gtcagcagta ttattgaaac ttccacaacg ggaagcttgc taagttgttc 2160
 ctctatggga ctgaggctag tgagggatat ttcagtcgag acaacagcat ttggctatat 2220
 tgatcggctct cttagatggg tctcacacca actacttcga cacagtgcga atttcctaaa 2280
 tttgttacga gtggacaacc agatacatta gttaggtgaa aacagcgaag tcagcgtctg 2340
 atcactctct cgttgcaatg caccattcaa gacagtaggt acatgtatct cagaagaata 2400
 taacggaccc aggtgaagc tcggtgctac ggcgacatag tttcctactg tacatgtcat 2460
 gcgggtgatt tcaagcaaca ttagtcctta gaatagcatt gagcttgagc tgctgcttcc 2520
 agtggcctca ttggtgtgtt atatatccct ctattgtggg atgatacaca tccttgaaat 2580
 ccaatgaccc attcattcat tacacctgct catattcacc tcgataaccc ataccattgt 2640
 acctgtcaa aagcaatttg cggaagtagt gaacaagaca aactgtcccg ttccacttcc 2700
 cctcagtcctc aggatataac ccgtcccca aatccacaca taccatgc tctaataat 2760
 gtatcggaaa ctagacaact ctttgttagc cacgtcatgg catacagcaa agcaaaccag 2820
 acaaagaaaa ctaaaacaca cgtggggagt ggaaaggaca tacttcagat tctcacgac 2880
 cgtcaaatcc aagaacgctg tgggtccaag gtcccgtccc tccaagccga cctccatctg 2940
 gctctgaatc cgatecgcgt tcttgttctc ccagcggagg agcaagccca gtgtactgat 3000
 taggacagct tcgatgagat gcgaaacgat catggaccat atgccgagtg agtaggtcgg 3060
 tctagttatc aaatgagatc atcagtatct tgttgataga ggagtgaagg gaagaaggta 3120
 agcaaagggc atctactttt gactctcttt gtaaaagaac ggccccgcaa tattcccagt 3180
 gcagtaaccc aggaaaagga ctgcgtttgt gacaactttc tttgtatgtc ctgttaaccc 3240
 acatcatcca gtagcgatta gcaccttca tatctcaaat tacaccagc agagctgaga 3300
 tgagggcgtc gaccagacat accggcagtg ttagcggctc gcatactaag aatcaacaca 3360
 aaagccgcat tatacggccc tgtgagataa tagcagatca gccggccgat ttgttcgctc 3420
 tcgggaacga agcgcagccc gaatgctccc gctagattgg ggatcaggaa tagcaaatg 3480
 aatacgcacg ggcgattttc aaagcggctg ttcaggtaga cgcacgctag gattgagagt 3540
 gcgattagga cgccgtaggg aatcttcaca tgcagtcgg tttggatggg ttgatggggg 3600
 tgtgaatgag tatgtcagac aaacgtacct gcacagagt cgtaacgaga gtcgagaatc 3660
 cgaagccttt gataatgatt gtcccgaagt tggagatacc gccgttgggg atgttgccctg 3720

aatgcggatg tcaatctcta tcaatctgta cgcgattaat cgggtgggacc atagcgacgt 3780
acagacacag cccagcacga agaagaagta catctttagt tcggtgaatg cctcaaggac 3840
ctgctgtggc tttaggtgct tgttctcgat accggttttg ttttcccgta gtcgttcaac 3900
ggcaatccga cggttctcgtt gtgtcaagcc tggcgcattg accggggagt cgggaaggaa 3960
aatgaacatg acaatgcccc aggctgagca aagagcgcca ctacccttat cagcacaagg 4020
tatgcctact tcaggaagaa gacgtacatc acgatgaact cgtacttcca tgacggaagc 4080
gcacccttaa tattaccaat cccgtaacct aacaggccgc cgagagcaat gccaaagccg 4140
ttggctgtat accaaagccc catacgcaact ggctgttcgc gccgtgtgta ccacatgctc 4200
gtgattagca tgaatgcagg gtctgcgag gcttcggcag caccacctag ggctcggagg 4260
acggcgagag tggatgaagt atggcatgcc gcttggatga tgagaaaaac gcccttgatt 4320
cttagctggg tgtccgagct gataggtgaa tggggctctt accacatgaa gatattgatg 4380
ccgagatact ttcttgggca gaattaggtc tgtggaacaa ggtagcaaac atatcaaacc 4440
cacgtaccaa ttggaaaccg ttgcagcatg agattagtag gctgccggga tcagtatctg 4500
atcgtttctg tatcttctcg cacataccaa tgcccaaacc aagaaaccaa agtagccaat 4560
agtagtaagc caggtacatt gtgtcccatg aaggttcaga tcctcgttga tcccaaagat 4620
ggccgcgtaa gtgagcgtag tctgtccaac aaagtcaggt ccaacatgat cagtctggga 4680
aagggggagg tgtaccatat caatatagaa gagcgcataa caaaccgcca agtaaggcag 4740
aatcatcaaa tcgatcttcc agagcaccag tagtgcctcg gccggatcaa cctcctcatg 4800
aagctcttcc gggctactga acaaggcctg agcaacatca ccgtcttctc cgctagtga 4860
gactggcttt gtcgggactt cttcggcgtg atttgtggtg gctgcgttgt tatccttcgt 4920
aatgtccgag ccgccgtgag actggaaacg agatgttatg gccatctttt tctcctaata 4980
tcgttcttta aatctaagcc aaagtaccag agacgaagac ggggcaggca gacgtgaagc 5040
agcgtggagc ggcgcgcttt atatactgtc gctggatccg ggaatagacg cgagcatgat 5100
ttcggacatc acagcgatta gtccattacc ctgctccttc tccaacagac ttccccgctt 5160
agattgatca ggtaatcaga gagtgtgagc tggtagaaag atgaattact cgggggttatt 5220
ccgccatacg tcaagattag ggaaaccctg agtgagagat ccaactggcta tctgcagcgg 5280
aataggacgg attgcggaga ccaccagcta taccatgc accccgcttt gacggcgtga 5340

cgggtgctcga agcttgggct cggcataatct gcgcgggtat atcattagtt gcccaaccagt 5400
 ttctgcagct ctgacggtag tctgaggaca gagaccgagt caaaacccgt acggaggatc 5460
 aggcgatgtc ggacgtacgc cgagcacatt gggaagataa aaggaatgat aggtgggaaa 5520
 acacgaagag cagcagaata aggaggtgag gatgaacaaa ggatgaggaa acggcaaaga 5580
 gctgcaatgg ccgataatgg tgtgggggta gagcgtgggg ttccaaacct ccactctcat 5640
 ttgcggggat aatctggggt tacatgaaaa gtaggatgcg tactatggat taggtaghta 5700
 tatgttgaca gacttttatt ctatccactt ctgctaaacg gcttttgca ttacacctcc 5760
 acaccgatg gttccagcca cctcacattt tcattctgtc ttaccgccgg ttaaagttca 5820
 aataacgagc ctgccagcgt tagtaagtaa gccaatcacc agaagggaga gcctgcaaat 5880
 cagaaagtct tacagccatg aacaaaatta tcaggttaga cccgacaaaa gccgcataaa 5940
 tgcccaaata cctccaccgg tggtaaaagc tcattctgaa ggcttggtta tactcgtctc 6000
 caactcgata agcacagtac tcgcaattct gagtcgcatt gttggccagg tatccaatcc 6060
 cacctcggtc gaagaatgac tgcattgtact cgccgcaagt ctggccggcg ggagcctgga 6120
 accggttgta ctgcctgga gtacagacaa cagggcggtc gtgcagttcc gtcgtgacca 6180
 tcccgtgat gatgcgcgtg aacgggtcga gttcgtagaa ccagactcgc cagaacttcg 6240
 gcatctgagg ttccgggata atgacgccgc agaataaact gaacaagatc atgagtggcg 6300
 ggttgcaactg ggatgcgata atgctgttg gagtaagggc ttgaatcatt tgaccaatg 6360
 tcaaggcgaa caattgcgtg atcatgatca tgaagaactg gtagcccgcc cggtcggagg 6420
 cgccttgaaa accggggata tagtaaagga agacgaagaa gataatccc ccatgatgc 6480
 agtatgggat ttccggcgac accatagaca cggcaaaggc gaagtccttg tatgtctttg 6540
 acgcggttc tcgataaaat actaaccgcg acatctcgta tcgaggctcg accatttgaa 6600
 tgatgataat tgggataact gtgacgttga acaggacgaa gatgcggtac tgcagcgaag 6660
 ctccggagtc gtcgagttgc aggaacgcaa gaccggtgat cagagaaatg ttgaagtggg 6720
 tgaagagccg agtgaagcca tacttgtgag agcgccagaa gacgatattc gtccgcttac 6780
 aaacagtctt gatctggtgc caaagtggag ttgcgtattc cttctcaacc ggcttcgttg 6840
 cttgattccg tctagcctcc tcagcgcgtc gactctttat ttcagcgatc tcttgtttga 6900
 cccgctccct ctccggtgac gctctccaga actcaacca gtcacagttt ccaagatggc 6960

gagtcgaacc agcgccaatg gcgtaagca tccactcagc ggggttcgca tcaggaggac 7020
 actctgcacc gttacgccgg aagtaagcga gtagtgtact tgaatctttt ccaatatcgc 7080
 caaagtacac acattcgctt tcaactcttca gcaacagcaa ccggtcaaag ttttcgaaaa 7140
 gagcaaaaagt cggctgtgga tagtacataa aatagcctgt cccgggcagc atgcttgccg 7200
 ggaatcgaac aactaccccg gttatctata gtaagagcat ggcattgcaa ctactttgac 7260
 cgcaattgtt gccaacggaa ttgctagtca aaatgcagtt tccgtttttt gccgtaaagc 7320
 tgggaacttt tttttttaga aggccttttag cggcatactg tttgagattc actccggaga 7380
 ttttttccta atttttgcct ggattacata aagtgtgaac caatctccct gttgtttgca 7440
 ttttttttaa gaggtctagt aactctttct ttcaaggtta ttcttttttt gggaataaag 7500
 tnttttcttg ctctggcttc ttgttctctg tgtgctggcg gagatatctg tgtgttgccg 7560
 gctgttcccn ntgggccaat cataaaatca tatttttgtt tattcacctt atatttttct 7620
 t 7621

<210> 3652
 <211> 945
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3652
 cttctgcctc agagagtctt cgatccactc taggacctga agcgcaacta gatccaagcg 60
 cgacgctatc ttcaactccg ctcccgggaag ctccacagcg ggtccagttc ccagtgtccc 120
 agcgcgcaa aactatggct gacacaacca attccacaac tacggccgac accaagcatg 180
 acgctgatcc ggccgctgat aacaatgccg tcaaagtcga cacgaagccc gcggtctccg 240
 ttgcagagag taatgcgagg aagactgttt gcaagaaaca caccgggaag gaaaaagagc 300
 ccagctcgcg ggaccgcgaa ccgaagaagt cacggaaggc agcgaagaat tcgtcaatag 360
 ttacgcccag cgatgatagc tcttccgatg caagctcgtc ttcagagagc acgaacacca 420
 gcggatctag ttcagaagat gatgacgatt cctcggcggg ttcagaatcg gaaattgacc 480
 ggcattcccc acgcagggtt acaaggacaa agacgaagca aagcatgaag cgcaataaga 540
 agaaaacgaa gctcaggtca cgctacgatg aggagacaga aaaagggtct gatacagagg 600
 agacagagca gagcagttct tgcgatgaga agcaactcag aaaatttgtt tccaaactca 660

gagccgagaa ggccaggatg cttaaccttg tggatgattc tatcggagga caacgatgtg 720
acgatggtga taccgaattg atcgatatgt cgctagccct ggccaaggag aagctgaggt 780
cgaaagaggg gactggaaaa cgtactaaat tgcgcgggat gcggaatctg cttggtgatg 840
cactaggtga tgcgcagaaa aattatgccc aaaaaggctt gcagaaaaag ttagcgagaa 900
aggctggttc aaaaatggcc ttcaagagag ttgatcaatg tgcgt 945

<210> 3653
<211> 1438
<212> DNA
<213> *Aspergillus nidulans*

<400> 3653

cccgaattaa ccctactaaa gggatctaag agatcaacat atccatcaca ctcatctct 60
tccgcggccg ttttttctgc ttataccgct cctcctggga gacggaggca gaagaaccg 120
tcgaggcaga ccctccatga cctgaatcga tagacccct aagatcccta ttcagcatga 180
gcaacgcagc cgaagcttcg tggatccatgt cagccgagga cgcattcgag aaacgagact 240
gagtcgcccg cgacgttgca agagacggca gtatccaagt gcgctcgttc gggcggatcg 300
gccccagcgc gggactgggc aaaatggatg gtgggatctc tgatagagca gctgcactag 360
agggaattcg actgcgcgga gagtacattg gcgaagggtt gggatttgct ttcgggatgt 420
acctcgggtg aactgagggc agagtatgta ctgccttggtt ggtcgccgag gaattcgggg 480
gatgttggtg acagaggggc ggaaggaatg ttattatggt tcacgccctt ttaattttcc 540
tacatatcct tctctacgt ttcactatat aattttcacc atatttacct tcacttatct 600
tctaaatatt cccatcttcc atatatttaa tcaaccttca tctaccctaa tctttcatct 660
ctaatacctc tctatcaatt cttataccat tcatctctat ttcacatcc tttttccact 720
tattcacttc taattcatca ttttttcct ccccttccct ctaaatttca ctacactctt 780
taactctcta ctctctact tattttactt ctacttaat aatcttattc tcttattcac 840
ctcttcacaa cttatctcct ataaactttt catcaataac tctaatttcc ctcccttttt 900
cccatacacc cactttttat tctatatcc cttttccatt tcccacctcc atctttaacc 960
attctcctct caatccacct ttcctattc taaaattata ttcccttttc tctcttactt 1020
atctaacca catttaactc cctatctttc acacataact cttaatcttc tgcctttcac 1080

caatcttctt tcctcctctt tttaaactac ataataatac catttctttt aaactcatct 1140
 catctattct cttttaaaccc tataacacac catcctctct catatcactc cttatattcc 1200
 tactttaatc catccacctt ctttaattcca tctcatcca ctttacccta ccttattata 1260
 tatcctcctc tctctatcaa tttaacttat actctcaact ataaccttct ccttcttattc 1320
 attatacaac atctactatc tatcataatc ttttctcttc tactctttcc tatctacact 1380
 cttcaatcat atatcatctt tcattcttcc ccattctctt acatcatctc ttctctca 1438

<210> 3654
 <211> 2769
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3654
 agaaccccag acatatggtg ttatcttata tatagtgtgg ctggtaaaaa ctaggaaaag 60
 cagcgcaagt agcaaatac tggtgagct attggtgctt gatattccgg tgccactgt 120
 gataacttat tcgccgacgc gtgctaactg cttcatctat ctctagccag aataacctac 180
 atgcctcgta gcgatccagt gcattgctgg tgcaccattt tcatggcata tttattgacc 240
 aagctgcgtt tatgtcacag gtgagccaac tacgtagggg cgatcgagaa aataggacta 300
 ctggcagtaa cctttgctgt caattctgag attgtttgtc cggacagatg ctcatatagt 360
 taatctgtgg cgatattcca agccaggatg catgagtgat ctagattcat gaccacatgg 420
 tctgatctgc tcgaatcgcg cctaaatata tagcttactc gcgacaataa gccctcggga 480
 ttttagtacc ttttagacag cagtagatag cttatatcaa gcttatgaca acaacctgct 540
 aattcttcaa actgcaaggc ccttcccgc cactcccagc tctgtctgag ctatattaga 600
 atacaggcgt tcgatatcgt taaaacacat tgcatagaaa aatgctccat gtaggatgtg 660
 attaggttat ttggcatgac acatgaccgc cactcacatt gagttatgat tatgaaagga 720
 agcagatcgc ctacagcctc agcttttgaa atccgcaaaa cacatagcca caatgctagc 780
 atcccacctg agaggccaat gatgaatggc tgtagaatct gcactcccta gggtgtgcca 840
 ttgcaccaac tgctaatagc agtaaagcag ctccagcccc tccgaccgcc gtggcggaatt 900
 caattgagct cacgtgtagc gattctggaa gcatctgggt gaccactaca acaatgacag 960
 ggaacagtgg gcctaaaaag aagccttgca gggacaccgc gactgctgaa atatagaagt 1020

ttggcacgag ccaaaaaaag ccgctaaaga taatcgccaa tgaagaacaa tacagctgca 1080
 agaagtcagc attggccttt aaccatcctt gaggatgatac ataaccatgg tgaactaaat 1140
 attaaacaag attgtagaaa agacgtatag aggagtgaaa tatatcatac cgtaactgag 1200
 agttcttctc caaccatcgg cgtaacgaat ccgagaaaaga ttcgaccaca ggttacatcc 1260
 aaccagaacc ccatgacggc catatcacta gcgaatgggc taccgtggcg cacttgcatc 1320
 atgaaaatca cgttcagcc gcccaaagca acttcaactc ccatgtataa cagaaggtag 1380
 agggcgcaaa cccaagtcac cgccataaat aattgtagtt gaggcagtcg aagtaagaac 1440
 atgtagatta gaaagacggt ctcgcaacgc gcgaagactc atgggcggtc cagtagcctt 1500
 aaatatgccg ttcatatat catccgtaac ttcccttttt tctcctcacc ggtcggcaaa 1560
 gcacttggat aaggcacatt ggacggggcg actaatgcgc cggcggtgtt gggggaggct 1620
 ccatcatcaa tcctgaatta tagctggcac gatccgaagc gcggtcatcg caggttcagc 1680
 acgactggag actgaccctt gacatggcag ttgtcaaggt cactgcggtc ctcgtccgta 1740
 ccgacgatag cgtaaacgga caggactccg gggaatggca cagtgtcagc aaaacaagct 1800
 gcctcgtatc ctggaaagat ccacttcccc tcaggcttgt aatcaagctt tgacgtttat 1860
 ggagacatgg agacatttga atgctcagat cgatgcattc tcctcccgct cggcagaatt 1920
 cttgctgttt gctgtccaag aactgcggc atcgcccagc gcagcgagct gaccggcagg 1980
 atgagctcgg tgcgtacgcc gaaccaggc agaatgacgg gctttccatt tttgaggtac 2040
 ttgtgatatg cctcgcgga gagcgactca caatcggta gatatgcaag gcgcgttttt 2100
 agactgaagc tggtttttcc aggacgttca cggatgaaag gcactcctct gggtaaacag 2160
 cgccaaagaa gacagtattg atgatataaa gcaacgcggc gggcaggagg aaatataatc 2220
 ctactccaag taaactgtcg acggcggttca tgatatgcat ggcgaccgtc taggtgtcgg 2280
 accctccagc tggagtgttt tggtcgggccc cttgcccttt taataatggc aaacgctgga 2340
 ggctgaggat gggggctgac attatttacc ccacaatagc tggaagttaa ctacttttta 2400
 ttggctgatt tatctacatt tgcagggact ggctgtctg agaccaagct tagctctttc 2460
 tggtgctaga ctacgtctta taggactagc cttatcttag tgctgatggg ctgggttctg 2520
 gccttcttgg gttgctgacg ggctgactcg ctagatttgg ctatgtagct ttagcgatgg 2580
 atggccgctg ggctaacaaa ctgaatgttg aataatcgtc cgagatgtca attgttctga 2640

ctgaaaggggt agtcggcaac atcaaccctc ggggtgtttca cacatagggc gcaccccttc 2700
 tcccctacta tgtacctaat ctaggtgctc ttcgtaacca ggctgcccct aaggccatat 2760
 cccagcgca 2769

<210> 3655
 <211> 6234
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3655

gaagcaccaa tggcggagcg aaagatttcc tatgctgccg acgtcgagaa tggtgaccat 60
 tctcgtccta ctgatgtgaa cgatagcgct ggccttgacg aatatggcgc tctcaaccgc 120
 tacatttcga ccgctcgcga caaccgtcgt ggatcgacct ctagtgctgg tgctcttagc 180
 atgaagcaga agaagaagcc ctggtacaag ttctgggcca aggctggtgg tgagaatggc 240
 gaggagggct tcgttgctcc tgaagactgg ctcgagaccg atctcaacgg tcttccttcc 300
 agccagatcg agcctcgccg caagcgtggt ggctggaacg agttgaccac cgagaagacc 360
 aacttcttcg tccagtttat tggttacttc cgtgggtccca ttctttatgg tgagtagccc 420
 ggtctgccgg tgttccatgt gaatatttct aactgaaatt gctcccatct agttatggaa 480
 ttggctgttc tccttgctgc tgggtcttcgt gactggattg atctcggtgt tattatcggt 540
 attcttatgc tcaacgctgt cgtcggttgg taccaggaaa agcaggctgc cgacgttgtc 600
 gctagtttga agggtgacat tgctatgaag gctgttgtca agcgtgatgg tcaggagcag 660
 gagatccttg ctcgtgaact tggtactggt gatatcgtga gttgcccaat tcgtcctttc 720
 cacgttctac tgccacattg ctaactgcc a tgcctaatt aggtcgtcat tgaggaaggt 780
 actatcgtgc ccgccgatgt tcgcctcatc tgcgactacg acaagcccga gacctacgag 840
 acctacaagg aatacctcgc cactgccaac gatgacaccc ttaaggagaa ctatgatgat 900
 gacgacgacc atggcattga tgcccgctt ggtgtttcac tctttgccgt ctaccagtec 960
 gccatcactg gtgaatctct cgctgtcgac aagtacatgg ctgacacctg ctactacacc 1020
 actggttgca agcgtggaaa ggcctacgcc atcgttactg ctacggctaa gcactcgttt 1080
 gttggtaaga ccgctgctct cgttcagggc gctcaggacc agggtcactt caaggctgtc 1140
 atggacaaca tcggtacctc cctgcttggt ctggttatgt tctggatcct cgccgcctgg 1200

attggtggtt tctaccgtca cctgaagatc gccactcctg agcactctga caacactctc 1260
 cttcactgga ctttgattct tcttatcctc ggtgtccccg tcggtcttcc cgttgtcaca 1320
 accaccaccc tcgctgtcgg tgctgcttat cttgcggagc agaaggccat tgtccagaag 1380
 ctcactgcta ttgagtctct tgctggtgtc gacattctct gctctgataa gaccggtacc 1440
 cttaccgcta accagctctc tattcgtgag ccctacgtca atgaagggtg ggatgtgaac 1500
 tggatgatgg ctgttgctgc tattgcttcc aaccacaacg ttaagaacct cgaccccatc 1560
 gacaaagtta cgatccttac tcttcgccgc taccccaagg cgcgtgaaat ccttgctcgg 1620
 aactgggtta ccgagaagta cactccttcc gatcctgtct ctaagcgtat tactaccatc 1680
 tgtacctgcg acggtgtccg ctacacctgt gctaagggtg ctcccaaggc tatccttgcc 1740
 atgtctgagt gctccccgga ggaggctcag aagttccgtg agaaggcttc cgaattcgct 1800
 cgccgtggtt tccgttctct tgggtgtcgc gtccagaagg agggtgagcc ctggcaattg 1860
 ctcgcatgt acccatgtt tgacctcct cgtgaggaca ctgccacac cattgctgaa 1920
 gctcagcatc tcggtcttcc cgtcaagatg ttgactggtg atgctcttgc cattgccaag 1980
 gaaacttgca agatgcttgc tcttagcacc aaggtttacg actctgagcg tcttatccac 2040
 ggtggtcttg ctggttctgc ccagcatgac ctggttgaga aggctgatgg tttcgccgaa 2100
 gttttccccg agcacaagta ccaggctcgc gagatgcttc agcagcgtgg tcaattgact 2160
 gccatgactg gtgacggtgt taacgatgct cttccctta agaaggctga ctgtggtatt 2220
 gctgtcgagg gttccactga agccgctcag gccgcttcta tcattgtctt cctcgcccc 2280
 ggtcttagca ccattgttga tgctatcaag cttgctcgtc agatcttcca gcgtatgaag 2340
 gcgtacatcc agtaccgtat cgctttgtgt atccacctg agctttacct cgtcacctcc 2400
 atgatcatca tcaacgaaac catcaaggcc gaccttattg tcttcattgc cctgtttgct 2460
 gatttggcta ccacgcgct cgcttacgac aatgctcact ttgaggctcg tcccgtcgag 2520
 tggcagttgc ccaagatctg gggtatctcc gtcgttcttg gtgttctcct tgctgctggt 2580
 acctggatca tgctgtcttc tctcttctt gagaacggtg gtatcatcca gaactttggt 2640
 tctcctcagc ctatgctctt cttggaagtc tctcttactg agaactggct catcttcgtc 2700
 acccgtgtgg taagacctgg cctcgtggc agctggttgg tgccatcttc gttgtcgatg 2760
 tctcgcac cctcttctgt gtcttcggt ggctcgccg cgactacgtt gagaccagcc 2820

ccccagcca ggccactttc tccaccaaca acgacaccga cattgtcacc gttgttggtta 2880
tctgggctta ctcgattggg gtcacaatca tcattgctgt ggtctactac ctctcacca 2940
tcatccctgc ccttgacaac ctgggccgca agaaccgctc tgtcgttgac accaaggtcg 3000
agaacctgct taaccacctc tctaagctgg ctatcgaaca cgaagttgat gctaattggca 3060
agtcacgata cacccttggc gctcgtgctg agcctgagga cgatgagtaa acgctttcgc 3120
tcatcattct tttctaattt cctatcatct ggatatcact tgctcataca tgcataagtc 3180
agttaccctg gctttttaac cegtattata gacttttttc ctccctatta cccttgctct 3240
aagttgatag agtcaatttt ttcttcttta catgtatgta tgtgattaat agtgataaat 3300
ttagtgaatc aagggttcaa gaattacttt ctattgacat aggattccag aattagaaac 3360
agtctttcaa ctgatatctt tctgactcta ctggcttcgg tatggatttg gcaaactagg 3420
aagccgttga agtctccaga tctaaaacct gcctagtttg gccctcatct ccgagctcga 3480
cgtctgcagc ctcgctctcg atttgtggag gaagttcgca tgcgcacagt gcgacgctaa 3540
ggaatagtgc aatttcgtcc agtgtatcca caaccacac agctttccgg atttcctcct 3600
atgacgactc gccccctttt gtttgattcg gatcggcctg gagcagcgga gccccatcgc 3660
gagcatcgtg cccatcgtc tcttgcgttg cttgaggcgc gctgtaactc gtcggactct 3720
caccgaggct ggattcgtaa cctttctccg tacttctcca gctttgtttc aggactccag 3780
ccgccagcct tccgaggcca accgcctgtc gtgtgctgcc ttggccggtt agcttgctta 3840
aagctccgcg gagtgaactga gttctcttca ttggggacta ctttgagct tcgcagcttc 3900
gtagctggct agcttggtgg gccgcggttt ggaactattg atgacgaatg tttgggatga 3960
gacgacttga ttaggatcgc acatctgcaa cgtgtattga tactcaatta tgatttgcac 4020
gatacagtag cgaagacttg aagtggaggg ttatcgcgtt cgtcgtagtc atagattctg 4080
ctaaaggaaa aagtaaatgg gacacgtaca agctcgaagt ggacactaga aggagatgac 4140
tttcatggcc tgaggcaccg aattctcgtt cttgaacttg gcctcatgct tgaatatcct 4200
tatcaattct tatcgttgag atcctccttg tccgcacaga cagacgcctt cagcttcgat 4260
attcccttct tgtgtgatgt attccagccc agccagctag ttcattggagc gcctcccggc 4320
tccccttctc atgacaacgg ctttgtgtat acgccatgtg ttggggttca gcaagtccgt 4380
tttcatgtac tccgcactgt gttcttgcta attcctacag gcgggatcca attctccgtc 4440

atgctgtcct tcgatttttc cgtcaacca gctagctcat atttccgggg ataggetgat 4500
tatctccctc cggtttagct gatgcacttt gccattggaa gaaatcctga gctctagttg 4560
gcatatacag ccccgagct tcgtatgctt gattcaacta aacaatgctt aggaggccag 4620
tcaattcctc acccacaag acctgccgt tccccgcat ttctcccgga ttcattggatg 4680
gagattttcc ggggacggta gctagctatg tataagagcc attgatggcc atggcactga 4740
gatcgattca tccaggcaat cagctcatat agtacgatgc cgaaattacg ctcttgggct 4800
tcccctgctt ctcaatgtgc tctagccag cgcagcgggc atcccttcga gccgctatag 4860
gaattgccag agatcgcga aagcgtgccc tgaaggcact ctcgttgtct ctgcatccga 4920
ccctaaggct gacttttcaa cgtccaagc cgcagttgag tccctgccgc acgataacag 4980
cagccagacg atcctgatcc tagcaggac atatacgaa caagtcaatg tcacccgtcc 5040
cggcccagtc acgtgctcg gccaaacaga ccatgtcacc gacgcctcca agaaccaggt 5100
gacaatcaac tgggcacaag ccaaccatga cagcacgggc cagagtgttg acaatgtttt 5160
cggaagcgtt ttgactgtcg cacctactct gaacgcgagt tacactggct ctggtccac 5220
gggattccct gtacctgagg atactccctt tggctcagtc gactttcgtg cgtacaacat 5280
tgattttacc aacacctggg cggactattc agacggcccg gcacatgcac tcagcttcag 5340
cagggcta at ggccgggttct actattgcgg gttctattcc taccaggata ctgtaggtct 5400
gcctaacctc ttgcgaaata atctgacaat cataggtcta cgtaggcaaa ctcggcaacg 5460
catactttca caggagcata atagccggcc aaactgactt catctacggg ttcggcacag 5520
cttgattca atcgtctgat atcctcctcc gcaactgcgg cggcggcatc acagcctgga 5580
agggtagcaa cagcaccttc gagaacaaat acggcgtcta catcgtcgac tcatccgtgc 5640
aagctgcaa tgctcaatt gccccgaaa tcgtcgggtg ttgccccctc ggcaggcctt 5700
ggaatgaact acaccgtcc atcttcgttc gttcctatga ggatgctagc attgatcctg 5760
aagggtacat tgattgggtc gttgatggtg taagccgtct gtcaaacaag actttcatgg 5820
ccgagtatcg cacctttggg ccgggggttca acgtctcgag tcgcgcttcg actaatgcat 5880
caattgtctt gtcagccaag gaatatgcgc cgtatgattc tctgcgaag gttttcttga 5940
ccccggacgg aaaggccaac aatatcggct ggattgactg gcaggcatag ctagccatca 6000
aactgtttat accgtacata gtagcagtag caacagcagg ctcttagtct ctcaaaacaa 6060

tcttttcaac tccccctttg cagccaaata agccgcccc gtgtccgccc aaacctcata 6120
 attccgaact ttcacctect ttatttcctc atcctcaacc agcccaatcc ggtaaataaaa 6180
 cacctcatcc cagccttctc cgctttcttt actcaciaac ctgcatgcc cctt 6234

<210> 3656
 <211> 5384
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3656

cggggctgga acggggggggg tgcactgagg ttgtcctgga ggactcaga gagcaagatg 60
 cacctggccc gcactatcgt tgtgccagct acgacttcac cgacatttcg tcaggtttct 120
 tcgaagctgc cagtgaagaga ttcaaagaag caggatgatg gatggaattc aaaaagctga 180
 atattgaaga agaccgcgtc gggcagggat tcgagagcaa cagctatgat cttgtgattg 240
 ccagtcaggt cttgcatgca actaaaaata tcaatcgac actggcaaat gtcagaaagc 300
 tgctgcgtcc gggaggaaag ctctcctggt tggaaatcac tcgggatgag atcgacctgc 360
 agctgatatt tggaacttta cctggatggt ggctaggtaa gcatggccaa cctgggaaga 420
 tcaagtaaca actactaaca ttaattgcag gagaggaggc cgagcgtcag tccagccctt 480
 cacttaccat ccctgaatgg cagatagcaa tgaagagtac gggctttgat ggtatcgata 540
 tggaactaca tgactgtgag gatgaacact tttatgcttt cagtgtcctg ctggcaagtg 600
 ctgccattcc agatccagtc atttatccac aattcacgat tgtgtacaaa gagatgccac 660
 ccactaagtg gctgaataaa ctgatcacat ccctcgaaca attgacgaca ttcaagccgg 720
 atgtacaaca gctcggcacc tttgatgctg aaggcaaaac ctgcttgctt ctgggagaga 780
 tgcatgaggc tttgctccac gagccgagct caacggagtt tggctcgata caatctctcc 840
 tcatccaggc tgccggtggt ctttgggttt cacgcggcag tgcgattcac tgcgaacgac 900
 cgcataacag tttgcatact ggactacttc gcacccttcg aaccgaatac agcagcaagt 960
 tattggtctc actggatatt gacccacta ctgcgagatg gccggctagc gctattgcga 1020
 ccatgcttga agtgtccgaa ggcgctttcc cctggacaag acccatgcca tgtggacaat 1080
 gaatacgccg agcgtggggg gatcatatgt gtaccgggtg tgtttgtgac tgacgttgag 1140
 agctcggcat ctaccgtag gattgagagc gccgagacta aaacagagtt gttccgtcaa 1200

tccagtcgaa agctgcgtct ccaggtgagc acccctgggc ttttggatac cctcggcttt 1260
gtgggtgagc ccatgcaaac cgatccgtta ccagaggagt caattgaagt tgagcccatg 1320
gcgtttgggc tgaactttcg ggacgtcatg gtcgcatgg gccagttgag cacggatgta 1380
atgggcttcg aatgcagcgg tgtcgtgacc caggtgggct cactggcatc ccagcacgga 1440
ttcaagattg gagaccgct atgtgctctc atgcgaggac actgggagaa tcgtgtacgc 1500
ctgcattgga ctagtgtcgt tgccattccg gacggcatga cttttgacgc ggccgcttcc 1560
attcccatgg cattcacgac ctcatactac gccctgtacg agactgcacg tcttcagctt 1620
ggggaaaccg tgcttatcca tgctgctgca ggaggtgtcg gccaagcagc aatcacctg 1680
gcgcagaggg tgggggccga ggtgtttgtg acggctggat caccagagaa gcgggagtat 1740
ctcagccgag agtttggcat ccccgaagat catattttct cgagccgca tggcgaattt 1800
gccgctcgac tcatggagat gaccgccgga aagggggtcg atgttgtgct caactctttg 1860
gccggggagt tctccaacg taccttcaac tgtgttgac cttttgggcg attcgttgag 1920
attggtaaac gcgacctgga gcagaataag cagttggaga tgcacgcctt taccgccat 1980
gtttccttct ctagtgttga tctgattgct ctcgagaaac tcaaggagc ggtggtgtct 2040
cgcacatga acgacatcat gcgactgac aaggatgaag gacttcggct catccaaccg 2100
actaccacct accctatctc gagaatcaag gaggccttcc ggatgctgca ggccggcagg 2160
catattggaa aagtgattgt gattcccggt ccggatgac gagtgaacgt aagttcgcgt 2220
gtccagttta ctgtttaaac ggagccaaga atactaacgc acaattgcag cttcttccgt 2280
ctgaatggtc tcttcacctg cactctgaat ccacgcatct ggtaattgga ggcatgggtg 2340
gagttggccg atctatctgc gaatggctgg tccagcgagg cgctcgaaac ttgattatca 2400
tgtctcgaa tgccgaccag caagcacagg gcaacgccta tgtgaactca ctgcgggcat 2460
caggatgcac ggtggtcgtt gctagctgcg atatctccga caagtctgat ctcaagcggga 2520
ctctagacgg ttgcttgacg tcgatgccac ctcttcgggg agtcatccat agcggaatgg 2580
tacttcaggt gagcaatccc ccgtctctc taaacttact cttggctaata cgcaccacag 2640
gataccgtct atgagaagat gtcggtggaa gactatgcca gggccatccg gccgaaagta 2700
caaggtagct ggaacctgca tgaggtgttg tccgacgtgg atctggaata tttcatcatg 2760
ctatctcac tgaatggaat aaccggcaac gtgagccaag cgaactatgc cgcgggtaat 2820

accttccagg atgcgattgc cgcgtcatcgc agcgcacgag gactgccagc ggttgccatt 2880
 gacttgggaa tgggtccgcg ggtgggatat gtcgctgaaa cggacggagt ggccaaccga 2940
 cttgagcgca tgggcttccg cgcggtggat gaagaagagg tcctgcacct catccaggac 3000
 gcgattttgc acccaatccg ccatgccact gactcgcaga tccttaccgg gtttaattcc 3060
 catcccgggg ccggtaacac gaatgtattc tgggccaagg acccgatact gggcggcgtc 3120
 ctacgcgcaa cgggcatcaa gtcgaaaaca cgatcaaacc gggttcatga tgcgatggac 3180
 ctccgcgaac agctggcgaa tgtgccactc ccagacgacg gattggttgt gcttcagact 3240
 gccattgtgc gtaagctagc cgcgatgttc ttcgtcgacg acgaaaccat tcaagtgggc 3300
 gaatctctcg ctagatatgg agttgattcg ctggtggcag tggagttgcg taactggctt 3360
 gtcgtccagc tggcaataga ggtgtccatt ttcgacatca tgcaaagcgc gtctgtgaag 3420
 cagttggcta gcagtcttgc ggccaaatgg gctgctgctg ccgcctaagc ctcgaatagc 3480
 attcgctctg aaaactatct tgtcatgttt ttgatagatg ctcgttcagg agttagtccg 3540
 gtaaaagaaa atcaaactcg cttgctaaga cgacgatact gttaggttag tagttagtag 3600
 ttgttagcca tagtctctca agtcatcgga gtgcgtccaa acttaatttc gatatagtaa 3660
 ggccagagaa gaatactacg atagcattcc gttgtattgg gtgtgcatgg ttacaggtg 3720
 ctacagctcg atatattaac caagggactg cttggggccg attattggtg atatgtcagt 3780
 tgcggaagtc cttagctata tcccgcccat gcacctgat atattctttc atagtggata 3840
 atcgacactt gatgcagccc tgaggatacc atggtgctca taattctgcg agatttattc 3900
 gaacagcggg agttccaacc caatattcca atcgatttcc ttacgtagtc gcgtacggca 3960
 gtattaactg atgcatgtac cagaggaatt cctagcacca cgaccactat actattggca 4020
 tctgctaagg catctacttg gtagttacta ggggatccaa gtgcgcatgg acgagtgatt 4080
 tgttgagagt ctaaaatcgt atgaggtgcg aaacatctac agtaatactc aataagcatt 4140
 ggcgcgacga ctacctacta ctacgagtat ccaaacacca ggctggaatt gcgattttgg 4200
 acccaacaga ccatgctttc catcgccctc tgccctttgc ccgtcaacca ctcatacgcc 4260
 taaaggtttc cgtcttttcg tcgtcgacc agcacctcca ccgtttcatc cggcatattc 4320
 tgcagctcga atgtatagtt agcgggccgc tcagtccgac ctccagcaaa ttggaaatca 4380
 tagttgagca agaaataggc catgatcagc tttatttcgt tggccgcgaa gaagcgccca 4440

gagcatgcgt gcttcccgtc cccccagctc agacttgacg atgcgttggg ggtgacaaac 4500
ccggccgtct tctctccagg agctgagggg acaaatcgaa acggtgaaaa tgtcgagggg 4560
gatgggtaga aatccccatc ttgcgagatc gcgtgggcgg gcacgccgat gatcgtgccc 4620
tttggaatca ctagtccgtc atggaggatg cggcttgact ggatgactcg gccaaaagtg 4680
actatatatg attatgtcgt ccaactgtcag tgaccggatg gcttttgtca aaaaaatgga 4740
cggagggcaa ttgacgggac tcacggagag agagaggatt gaaccgttga gattccttca 4800
taaagctgtc cagcttgagc agtttattca gagccgcctt ggtgaaaata ctcccttcct 4860
cgcgaaagcac tgattcgatc tcttctcgca gcggcgcaat atactctggc cgggcacaca 4920
gatcgtagag cagatgggtc ggcaccgagg aactagtgcg aattgcagca aatgaaatgg 4980
ccagggcagt ataggccatg aactctggag tctgatcaac cggctcggca ccttcccaga 5040
gcatctgcag gaggtcgaga ggctttttgg tgtcattatc agattcagac cgcttctgca 5100
caattggaca gatgacttga cgggcaacag taaagtgcg gcgcaccgc cccatctcag 5160
gcaagagatg ctggatgacg ggccggagcc atgccgggta ccgtttgagc tgctgcgagg 5220
ccaaccacgt atcggtggtg aagttgatgg acgtatccgt ccagtcgcgg tttcgggtga 5280
gggctttgcc cccaacatg cgattcgatg ctcgtgagat gatttgtgtg aagatttcgg 5340
acattcggac cggttgccaa tctagctctc atacatcgat tagt 5384

<210> 3657
<211> 4811
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 3657

catttcgtta gctgttattt tgccttatat gtcaaggcct gagtcgcacc cagtaagacg 60
atatgtgatt cactagcccc cggcaccgca cccacgtgtt cagcaggtat atcgttcccc 120
cactgtgcga ggccagagta acggaggaaa tgcataggtg agcaagcaga cgtgggacag 180
tgtcgacca tacgtcaatg cgctcaciaa gcggtacatc ggtcgaagcg cccatacctg 240
gccggtcaac caacatctat tttatcttag ggactttggg tagttaacta cgaattatct 300
ttgatcaggt tgccagccgt gctcgctttc atgtcaaggt cgtccctatg cgggtcaaact 360
aaggaagagt ccacaatcta ctcggtgttg acgacgatag attccttgag atctccctcc 420

ttttatgaag ccgttgtcga tgcggttaac ccgctcaatt tcaaggaacg tatatacata 480
 tataaatcaa acagctctat tgaataggca ttctcgtgaa cacaccgtga gtaggacatg 540
 actctaaccc tccaactcat tgcacgcacg gccttcaacg atggggtagg caattccatg 600
 atctcctgca tttaatcagc acacaagagt tataaccact agctgaacaa gctgatacct 660
 cgcgctaccg actgcaacat caagataagt agccgttgtg ctagacattg ttcagttaag 720
 gacgaggcac ttgctgggtg gccaacgtac catgttcacg tgcacacgac aacgttgatc 780
 tactccggtg ttggtatata cgtgtcacgt ccaagttgct ttctgcaacc caaaccagat 840
 catcgcaagg gatggatact tgggtccaacc tggaaaactg ccgcaacgct tccaatgaca 900
 ctgcttgagt aatcagcaag ggagcgggct ctcatggaat ggcatccacc atacgtttaa 960
 cactcagaca tatggatctc gatgcgttcg aaataagcat gcgatactct tctgcgttcg 1020
 cgtttacaac gtgcttaaag acggcatttc ttatgtgata gttgtctaac atcaaaaagc 1080
 caaggtttct gcgagcagat cgtcaattcc agtctcaagg ttcgtgttg gtagtcattt 1140
 ggaacctaca actcgaatac tagcttctca ttctgtagca tgttttgat cttgcagagg 1200
 agcaagccct cttgcagatg cttcatttgc tgaacaagat agcttgcatc taggcacgtt 1260
 agcaaacgac caacaatacg ggctttctta ccgttcgtgt tcgtcagctc tacgtccaca 1320
 tctattcctt tcaactatgtt ttcttgcccg gagtttgctc tggaaagaca gtctgcttgc 1380
 gatacacgaa catttgacgc ggtctttccg aggggtgatt gtgtttgacc gctcactgtg 1440
 gaagtttagc tctctcatcc gctacatcac agactgggtg acgttcacca gtgagggtaa 1500
 attcgaacg ttcacccctc gtggagtcaa caaggcgcgt atttaaggga acaaccaata 1560
 caatagccgc cgtttcattg aaaacccccg ctccatcacc agtcaaattc cggtaatgaa 1620
 ccattcggat tgcttcgata gcgccagtag agtatatgtg tccgctggcc ctcaagtctca 1680
 cattttcgat cttattgtat aattcgcttg catcacttaa ctggctatta gagggggatt 1740
 actcttgtaa gggttcgcta tggacctacc aaagcatatt caggactgaa accacaggaa 1800
 tcccgtata cgggttggtg gatggagaca ccatcaagga ggccattcct tgatggaacg 1860
 ctctcttagc cattctggtt gcgagattgg atatgacacc atcgaatata ctgagttcct 1920
 tattaaatca gtggcgtgtc caaaattgga tacggaggct cacatacttg atatgggtat 1980
 ggttcggatt atgaggcatg tgagctgnga tgctttgccg gaggacaacc atattttcca 2040

ggactgtgaa aggccattta agcgcacatt caagctcatt ggagatcctg acaaggcatt 2100
 agaagtcatt ggagcctata ggatgcacga taaggattaa acttactgaa gtctgcatca 2160
 gctcttcacg gtgaatgtca ccgaatctgg tgcgtcggag ctgacagtaa cacttgaaga 2220
 ctggctgatc cggagtttgg agccagttcg cattgaaaga cgcattgtcg caaagagcag 2280
 cagcgtcaaa cggcgcacgc tctcctaggt gcagtgcgaa agacagctcg ggtggcgtct 2340
 cttgtgatct cgatgaaggc tcatagaaac tcatagttcg gcctttcaaa ttgctcgtga 2400
 accaggcatg gatttcttgc agcatttcat gaacgtcctc taccttccgg cccgtgttct 2460
 gattaattcc actattgata acggtttagc gaccacagag acatcaggaa aggggtatca 2520
 cctgttcagg actgctatta taaggttgag gctgttaata tggaccccaa gatgatgctg 2580
 gagtatcgtg agatcgctc ctcccttgt ccaccgcact ttttccagt tcttccgaat 2640
 ctctcacgc catcgcttt tcttcgattc agtgggtcca ctttcgttct caatgatcat 2700
 gtacttgttt acgagtgcct cgaggtgttc cagtgtgaag cggcagttct gcaggatccg 2760
 cgcgatactg ctaactggcg ccccatcgtc gtgtcctggg gagaccctgg acagtgattt 2820
 caacgattcc agtgcattgg tgagtgaagt gagctgattc tgcacttcct ggaactctgc 2880
 tggtgccgac ttctgcccg atgtgaaggc ctgctgaca tcccaggcaa gcttcgacag 2940
 cattaatata tcgccgatcg atatctggaa cgccatgccg attgaccgtg ggttatcgag 3000
 ggatgcgaca aggtatgcac agaggatgga accgccaatg ttgtagtcgg tgcgagtga 3060
 tcatgaagtc tttcgtttga tcttcgtgtg gtctccatac gaggtgtgc aaggctgact 3120
 ggccaaaaat cggggagagg tggcctgaac gctgaatcta acagtataaa taagcaaagc 3180
 actccctcca gtgtcgatga ttccccaatt ctatgttacc cagacttcag ccccgccct 3240
 atggatgtgc ttgatcgggt ccaatctggt cttctcgtcc acgccagcgt cctcaactct 3300
 attccggcca ttccaaagtc tcacatttcg tcccacagag tctgcccc gatcgattac 3360
 gtcgataatg cttcattcag catcccgacc gcctcttcat cttccataaa cgatcgccct 3420
 acccttgaag tctcactccc gttactgagt gtctcggcca acgtggacat ccaggggaga 3480
 ctgtgcacta ccacggtgac gcagcaattc tgcaacgctt cctcctcggc ctcacaaaat 3540
 gcgaaatacg tctttcccat ttacgatgga tcggttgtca cctccttccg ctgcagtatc 3600
 ggcaacgaga gactcctcga aggatctgtg aaagccaaag aagcggcaag gagagatttt 3660

aagcaagctg tctcccaacg caaggteget gtgctggttg aggaactggt tccggaagtt 3720
ttcgaaacga gcgtaggaaa tatccctgca caaaccacag ttaagattga gatcacgtat 3780
gccaacctcc tgaaggtgga taatagcact ggaggactgg ttctcacgat cccgacatct 3840
attgcgccgc gatacggaaa cgcgccggca ggatacaacg gaaatcaatc cattctcacg 3900
gaaggggttg gaataaatgt tcaagcatcg atgccagcag ccatccgtag gatgagtcgc 3960
gatcacaccc gatctcagtc gagatggggg cagtttccca taaaagtffc aaggattttg 4020
cagatggtgc atcttctgag gtgcttgatt gctccaaggg acgggcaacg ttatcggaca 4080
gggagcccat tcttcatcaa gattttgtct tactcgtcct gtgtaattct cgcgaacttt 4140
cgcagtcaca ggctattgct gtggcgcaca tggtcagccc gctcactcca cgattgccgt 4200
caccatccat cccggggata tattgctgca aaatgtctac gtggaggatt ttgtcggcga 4260
aattatcttc atggcggatc gatcagggtc gatggagtcc aagatctcct ctcttatcaa 4320
tgtcatgaat atatttatac ggagtctccc tgaagcatgt tcgttcaaca tcgcctcctt 4380
tggttccgaa gtcacgtggt tatggccttg ttcgaagaga tacagccaag aaaacttggg 4440
cgttgcctcg aaacacgtgg attcattccg ggcaaactac ggtggtacga atatttattg 4500
cgactggag agtgttctgg atcatttcaa caagcaggat gacgtaccaa ccaatgtgat 4560
tttgttgact gacggcgagg tttgggatgt cgacaatgtg atacaactag tgcgcagaac 4620
ggtctcaatg aatggatcga atattagatt tttctcctta ggaattggag atcgagtctc 4680
acatcgctg gtcgagggca tagggctgca aggagccgga tatgcagagg ttgtgccaga 4740
gaccacgatg ggttcgtggc aggaagagt gatacaaatg ttaaggcggc gttgtcacca 4800
tcagcctcag t 4811

<210> 3658
<211> 7666
<212> DNA
<213> *Aspergillus nidulans*

<400> 3658

ttcaatagtt acgagaacaa tacaaccctc tactaatctt ctggaatatg ggatgatggt 60
ctcagcagcg aatgttgagt gaagatctat atacttggcg gtccctgcgg atctccgtgc 120
caagacttcg atctgtcttc ggtctttttt cagtccaact gacgtacgg tatctattat 180

gtagaccatc catccttcac catcacaggg acttggtgctg cttgctcacg gcaaacccttg 240
 ccaactctgc cgctatcttg agttctgccg gagctcttat ttcatttggt ataccgaaact 300
 ctacggacat ggctcccat ccagaacaac aatcgctctc ttcacccgcc gacgtctcct 360
 ccagctcctg ggggaaggtg gagcgaaagt tctaagta cgttgctctt gacctgcatc 420
 aagtactccc aaaaatcaac tagtaaactc tgctgggga ataacagccc cgcgatcatg 480
 gcaaggcacc tctgtgtata ccagtcgcat ctacctcatc atgatttcgt cctatctctg 540
 ccgttgagcc gactctaata gcaatattca gcaaatctgc cagcgagtac tacgacctt 600
 gtcaggatct cgcgaccgg agtcttagat gcatgaagcg caaccccgat gatagagata 660
 tgtgtcacga ttacttcag tatgtatttc cctacgatgt tcaacccta tcattacgtc 720
 gagctatctg cttctccttg gctatatggt cgtaagccat ggaactgcaa aggtcaaggt 780
 ctacactcgg tctagttcat ttgatcctac tgacaccgat attcagagca tatcgcgatt 840
 gtaaaaagca gtgggtgagt accaatgccg catttgccct ttgtgttctg ggtgaatggc 900
 aggagaattc agtgccgaat ctccattgtg aagtctacta cacccttggc tctgcctata 960
 tgaagctgac aaatcgacag ttgaccaga agaaactcgg ttcaagctcg accgccaat 1020
 aatgaagcaa aggaagacca aactcgcttc atgatgcata ttgtggtatc atgtcaagtt 1080
 cggacttgct aactaagtt tgtttggatt ttgaagcgt atcttgagcg gtcaatatcc 1140
 agagatccgc agcacgggt tttgggatga tctaaaatcg ataaactgtt gacgtctctc 1200
 tcagaatatg ccgcaatggt ctcatcttat attcgagagc caggcgacca acttgctccg 1260
 gtgcttagac tttgtctcg cggttcagtc ggctgactg cacaataagc gtcttttttg 1320
 cgctcccca gactcatttg cattttcctg ttctggatg tatatctttt tttctctgta 1380
 caactggcca tgatggctaa tatgtgggtg ataagtatta ccatctctcg ttgaggacct 1440
 tcttccata ccatcatttg tgatctctg caccgcatgg cgatcagcat gttggagccg 1500
 aaccctggac ttaaggtatc cgtgctctcg tgggtgctgt atctatgtag tacattaacg 1560
 gttcgctaca atatatttgt cgaaatttga gaaaaaacc aaccgtgaat ccataaatcc 1620
 aagcattaat ttgtagcatt gtgtagtcag aagcttgctt ctaaaactta gaccatgaga 1680
 cgcagtatga tcagttgaat ctctcatgaa agaaagatct atctaaattg ctgttgatt 1740
 tacgattttt ccatttcact acgcactcga cctaccctag gtatatcttt cgttctctggc 1800

atcacgcct tccgcgagtg gcttccccgc ccactttaag ctgccagtat gaagagaaat 1860
atttccccct catcatcctt cgattacctt ccccgcacac cgtgtgctgt gcttgaccgc 1920
gcagcatacg atcttctcct accggacacg cgactgcaac cttgaaaccg gcagacctca 1980
gcctgtatat cggctacttg agttcgagca ccgttcacaa tgtcgaccaa cgacgccgtg 2040
ttccaacggc gaaacaagca gatcgaagat gccattgacg gacagaatct gaagcaggcg 2100
ctgcagctga ttgaaaagag gatcaagaaa ggagaagata cgccattttt aaaggtacgg 2160
cttcgactgc gtatggaagc tgtcttacca tcttacttct attgcttctt caagagaaga 2220
ctactcttct tcacctaatt tatggtttct agcatcgctt aactgtgtg ataggcatgg 2280
agggcgcaaa ttctattcca tcacgccgac gaagcccacc gccagcgggg tattgcagag 2340
actctccagc tgtgtaaagc ggaccacgagc gtgaccgacc ttgactctct ggagatgctg 2400
tatgagacgt tgcagaagat cgggtggacat gaggagacta tgaggagtat ctgggagagg 2460
gctgcgaaag caaacccgag cttcgggaca tacagacgag gtggttcgac tacgctttcg 2520
aaggagacga ctggaagtcg ggcgaaaagg tacgcgcctt gttcttgctt gtcccagcgc 2580
ttggaaggac ttgagaacta aaggatccgg gttcaacagg ctgctatgtc tctgcagaat 2640
aacttcccaa agaagcgaaa gtattatata tgggccatct tcctctgtta cttcttgct 2700
gtcgacgaag ccagctccga aacggaccga aaactctttg gtacccttgc atatcgcatg 2760
gtttcaaaag ccgctgaaag cgttcgggca gatccggtat gttatgccct tttagtactc 2820
tttccgccgc cctcaactct acttttcgtg atattgctcg aatcaggatg gtaatatttc 2880
tgcttaacaa tatagaagga attactgagc cctcctagag ctatccaatc agctgaggag 2940
ctattgttac ttgttaggat cttcgaatct caagggcgac atgccgaaat catcaagatc 3000
ttagatagtg acaaccttgg cattaactcg aggattattc aaaacgactg gtccttcggt 3060
ggcgtcaaac tgtccaactt ggaaaaggcc aagatgtgga ctgaaggctt gttatatgct 3120
aaggagcttc ttgctatccc ttccagtgag gaagagagaa aggctatata ggagcgtgac 3180
gattgggctg tctggcattt acttgtcacc gctacgcaga agattgacac cgcagagtaa 3240
gtctgacaat aacgataacc atggctgagg gtgaccgctg gcttctagga ccacatccga 3300
gacgcgagac ttcatagata agtttattat ggtccaaccc aagtccagaa acgcgcaatt 3360
ggcacgctta gacttggat tctccagctc ccaatcgga gcggtgaaac aggaagagtt 3420

gctgtagct tgccaggctt attttgacca tgccaaaaac aagctttact gttttggcga 3480
tctcttggac tatctaccag ccttaagtaa agactctatc agatcgtttg tggaatatgc 3540
gtcaaagaat tctggaaata cagaggatat tggcttgccg ttgacagctg gtatgtccgc 3600
taaccatcat ctaaggtaac tggcccatc agagggtgtg ctgtaatcaa cgccctgaaa 3660
ttggagtact gtttcctatt gtctgcaaat gcgtcggacg tgtctagaga ggaagtagaa 3720
gactttgttt cgcgctgttt gaaagagtat cgcgaggtcg aacgtcctga ccgaggttct 3780
gcgccgtcta ctattgaaag ccagccaagt gatgacctat gcacccctgc agccatgggt 3840
ttactccgtt tcagtggtaa ttgggtctcg agaaagcagg aagaaatccc tgatattatg 3900
ctcatccgcg ccgctgcaat tctagagcgt ttgatcgtcg attctccgca taactaccaa 3960
gcattgctcc ttctcgtgcg gctttacctg cgcttgggcg taggatctct cgcactgaaa 4020
acgttttagca agctttcggc caagcaaatg cagttcgaga cagtcgcca taatctcttt 4080
actcgtcttg caactattca ccctcactca gcaccgcca tcgatgggtgc agaatacaag 4140
gacttcaatc ccagtcagc ctttgtgcaa gctatgatat tctaccttag tgcaaatgcc 4200
acttcgacca gacatcgctc aaatggctcg gactacggca gctatattaa cgtcgagggg 4260
accatcgagc ttcaaaggcg acttaaacga agcatctgcc gcaggatgtg ggcgctggaa 4320
gtgaaacgag taaaaagact gacgggtggg gagcctgttg gacgttacga tgaaatgggt 4380
tttgtgtatc acccgcatg aagagctacc tgctaacca tgttatagcg agagacactt 4440
cgccgttagt tgaccagcgt acgtttgatg cattcatgaa ttgcgaagcg cctggtcaac 4500
ctactttcga gcagctgatg cgtgtaggcc ctctgcccc ggtacgtgct tccgatgtcc 4560
gtgttgata cgactagaaa gttaatggat acagaaacac tgggttacgt cagcgcaaat 4620
gaccgataga ctctggggac tcctcaaaga cttggcggtc cagaagccga tcttagcaac 4680
gccggagatc cctgagcttg ataagctcgt gggagctagc gcggagtctg agatgactcc 4740
ttcagagatc gactgcacaa gaaccaacct gactctcta aggttggctg tttatatcag 4800
tggaatcaaaa tctgttacat ccgagcaagt tgaaaagagt cttggtcttc tggaggagtg 4860
gttgaaatcc aaattagaag ctctggccac ggacgggaac agtatctccc cgatcatgtc 4920
acaaacaacc attttcttac agtcggatgc tccatatgca ccaacatggc ggttcttcca 4980
cggatatttc agcatacttg actccgtgaa ggcgttagtt tttctgtgct ccaccgcac 5040

gagaaagggc tcaaagggcg ccaagttacc caaggatcga gtcgaaagct tattggattt 5100
ggggcgtaag gtacaccagg ggcgccatgc gaacatccgc gccctcaaga aacggttgtc 5160
tgagccaggg aagcttggt cattgatgga cctgggttatt gctggcaagg gcattggtga 5220
agatggcgac cagcttcgag gtgagctcga gaaaatgctt gatacatcgt ccttggaact 5280
cttctgtggc gagttgatgg agagttggga tgaggcactt ggtggaatgt tggctgtgag 5340
gatgtgaata atggtatata gatatctact gttttagcaa tatttgaata tagagatgtc 5400
gtccttggtt gacctcttac aattttgcta agattctcca gatctccgca gactgcatac 5460
cacgccatca acgtttcgct aatcttgtcc tttcttttcc ccctctgatt atccaaaacc 5520
ctttcctggc ccctgcacag gatccaagca gaacgacgac gcgatgacca attgtccaac 5580
aaaaaaatgt ttgtgtccca cctagcactg aagtcacacc tctcacgaga cttggagacc 5640
atgactctga gcgctgaagc gaatgctgat ccgctgcatg caagggatct ccgcgaaacg 5700
aataacgact ggttttgtgc tggctaccct tgatacttgg agtgcctctt gaattctccg 5760
cctcttgctt gccatagcgc atctactgca ggaaagcaac aattcgagtc gttttttggc 5820
ttcgacctgg aaaggggaaga gcgggggttac actgcattga gtgaaccctt caatgtcaaa 5880
tcagcacggg aagtggccat cccttctagt ggctatgggg agttgccttc ccgtgtgctg 5940
cttcccaggt tacatctctt gctctggcta ctgttctctt ggtgcccccc ctttgacact 6000
gagattatag gcagagcaga gcctcttaaa atgagccatc gtcagatccg ttcgattcat 6060
gcccgctctg cgtaatatatc ttggggctgc tcttggtgaa tcatatggat taaccgggac 6120
actactgagc accgcttctc ctgtcgccga ctttcagcat gtttggcgcc gagttggttg 6180
gtcgcgagac cggcgggtcaa tccacggacc agccatatag ctaccgagac tcggctcgaa 6240
cttgggatac ggttaccag tcggtatgcc ttagtgcaag cacgatctgc atagggatgc 6300
gaatgtacac gaagtttcag gtcttgaaag cgccaggatg ggaagactgt aagtatcctc 6360
tgagcctcag gcttctacgg agggtgacta aactggttct ctagtctgct gttttctagc 6420
ttgggtataa cgctgcggg ctttcttctc caggcatcac tccaagctaa ccggggctcg 6480
gtagctcgga ttgatagcat atgccgtgat cacgattgaa gcggacaaac atggcaacgg 6540
ggctcatcag gaaacagtgg cgccgtcgga cttacgccag tacgcgaaag taagactgtc 6600
tctttgcccc gtgggttgca gcatatgttg acagtgcagc atgtgtagct ggccaaccgt 6660

tcgcaaatac tctatgcgcc tttgatcttc gtcacaaagc tgtctatctt ccttctgtac 6720
 ctgcgcgtgt ttgcgtcagc cgggcgaggc atgacatata tatccattca cttgctgatt 6780
 tgggtcaatc tggccttcta cttggccaac tttttcttga agattttcca atgtattccg 6840
 cgtgctaaaa tctgggactc gaatacttca ggtcactgta tcaatattaa cataccgatt 6900
 ctcgtagacag ctgctatcaa tgtggtgtct gatctcctga tgctatgttt acccattatt 6960
 tgcgtttggc gactgcaaat gtcgattagg aggaagttag gtatttctgc tatatttgct 7020
 gctggtatct tgtaagtctc accaacttgg cgcacttgcc tgatgtcggg agccggcggc 7080
 gttctaactt tgatatctag cggatgcttt gcaagtatta tgcgtcttga agtcagcgtc 7140
 aggacagga aactaagga cccaacatac gactggtaca gtgagttttt gtggacgtga 7200
 gctcgccatc ctaagacttc aaattaaatt ttacaagact aactgctacc agtacagccg 7260
 agatcacctg cgggatcctc gcgagctgcc tccctgcact gccgacgttt ttccgccact 7320
 tcttcggcaa agctagaact atgctttcaa ggagtcgtac aagaggatcc tcgaatcgta 7380
 gtcaagaccg gtctctggag aaagcaacag agctgtatac cctaacatat ccgcgcggcc 7440
 aaaaacatca cataattacc gataaccgat tgatcgatca agaccgggaa ctggacgatg 7500
 acaggaccca gatttttagt gggcctagct atgcggtgac cgaggctaga gtggaagggg 7560
 gaaccctctc aggccaaagg gcctatcatg gagatgatac ggtgttgaat ggagaggacg 7620
 gcagtgggtc ttgtagggga atattgaaag tcgttgaggt agatgt 7666

<210> 3659
 <211> 2520
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3659

aaacccacgc gccggttccg gtaaaggtcc catggatcct tccaccggga atgttgcttg 60
 cgtccccgac gctaggaaaa acgctctcgc aggcgccggg cggcttgccg tcaagggtaa 120
 gtaccccgtc accgctggct gttggcgcag gaatctaacg aagagcaggg aatcactgtt 180
 agcatcatcc ttctcgatc cggcgtctc ggcttgacct tcacgaactt gggcaactac 240
 gttcaaaacg cattcacata ctccgaacgg tctatgctgt acgagtcttc cgagtacaaa 300
 gagtacctgg ccaagtaga ggcggccagc ttctgtcgt cgttatttta ctgcatggcc 360

ttttatgctg ccgtcagggg ggccagtcag cgtgtcaacg cagctgatac gatgtctgcg 420
 tatgcgccctc cgcccccgcc cccgcagcct ccgatgacat tcatgacggg gaacgaaggc 480
 tatcataact cggggccagc ttattatcat aacctggggc aggagcaggg gtacgggaga 540
 aatccagagt atgtgcggta gtgggcgggc acagttatga tggaatggtg caatgggata 600
 tttcgcgtcc gtaacggcag ctttatgttt cccttgtata tatgttctct ctcatctctg 660
 cttctttctt tactgtcgtt ttctcttggt cttttctttt cgttattttc ggtataccca 720
 gttggctaaa cgagcctcac gctagcagta cgtatatatg tctaatacata atttcagtcg 780
 gcaccaacac aagcatgac ttttcaagcc tcccatttta cagtctcaac ctttcgtccc 840
 cccaaaacag atccatattc cccagccccg acgaaattat tgacgtgaat tgcccccaac 900
 caggacaatc ggacgacgag cgactgaggc ttagccctg tatttcgttg ccgttcgtgt 960
 ccggggcaaa cccaacggcg ctcccttcga gtgagccgt ataactcgtt gcggtcgtat 1020
 gcggactggt ttgggcatcg cacgggatcc ccgctgggc ttgactaaga gctgtagagt 1080
 aaaaggctcg ctccggtgac gcgggaaaat gcgtgcgggc attgctatat ccgttcctaa 1140
 tattctccct gttcgctggt gcgaaagatc catcaccagc tgtgtgcctg ggctgactgg 1200
 cctgccgcat cgctccaca cgtagttcct caaggacaag acaataaccg tcggaaagcg 1260
 agcccttctc ggcaatgtcc gaaagggtgg attgacatct tgttgccgct gagaggtagc 1320
 tgctgtacat gtggaacgga agggcacggc tctggatgac gtggatatag agcactatcg 1380
 tggcgttgaa agcgaagtag gacgttatct ggcggtatat gcgttagcat agacgaagaa 1440
 agaagtgaaa taaatagcat agtaaagccg gatggttgga tggggatgta gtaggcatac 1500
 ccagagcgcc cctaacagct ggcgattctg ggtgatctca tctatgatat caacgattct 1560
 catagcagca tttaggcact gcttgatact ttcttgtgcc tgggccgcta ccgcatgca 1620
 ggtgctagat cccacactga cttgcgcttg tgaaccgttc ccgccagcgc ctcccttgct 1680
 cgaacgagac cgaccatctt ggacgcgtgt aagatttcct agcatagatg gccgatgcgt 1740
 gaggatggtc gaatgccaat acgtaagggt aagcacgttc cgctgtcgct gaaagatcgg 1800
 catgagtaac gatgcactca gcacatctgc atcgagaaac catgccagct cggaccgcca 1860
 gacgctaagc tccttgctga tcgattgtac gaaggacaga cgcttactgt ccgagaccgg 1920
 tctgatggag tacagttccc gtagaatgcg gcttataatg cgggcgatct tcatgtgtgc 1980

taggggcgct agcattgtcg ataatgctgg gctcgtatth ccgcgctgag gctgttcctg 2040
 cggctggggg agatggagct ggtggtcttc aagacatgcc ggaaactcgg tatcgatatc 2100
 ctcgctgtgg aacgagcgag gtcttcccaa tgcagcactg aggtatgcat cgaggggtga 2160
 cgcgaccag aatgtgcggc ggcggcactc ggcctcgata acactcatcc cgccccatt 2220
 tatagagga tcggccttcc tctctcgatt caaccgata gcgagcgca gatgtgagac 2280
 tgtccgaac aaactccagc agtgatttat gcgcgactgg gagaggaggt agtagcattg 2340
 cgtcagccgt gcttgcacgc ttgtgagtct gatcgagccc ttttctggc ttagctgggtg 2400
 ctcgggcgct agatagtagc gggcactgct catttaatca tcatccatca gtactggcgc 2460
 tactgaatga ataggggcct acgtggatga tacctcaagt ctgccggccc gggcctttcc 2520

<210> 3660
 <211> 2845
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3660
 gaaacaataa aaatatacat aaaaataaga gatgaattaa aaaatagtaa ttaacacaca 60
 taaaaatatg gtggtaaaaa aagtggaaaa cgagaaggta caaagccagg ggaggataaa 120
 acctaactta gaacaaaaaa aacacatcta aagaagatag gtaaatgttt gccctggaca 180
 ccacaaaaag caaagatttg aacaaatttt tcaatccacc ccctgtaata gtggcatttt 240
 acaacacgga gggccatata aagtattaag acccacgcct tttcccctaa aaatggcggg 300
 gtcaaagtgg cctagtatcg gtccaggact ttccagctct gcaaaattgg gacttgcccg 360
 cagttatatt tatcatgcgg gggccttctt tgttcccgat cttgtccaaa tgggctttgg 420
 tcttaagcgt gtgtggtcgg aatttgtcaa catccaccg caagaacttc ctgtcccgtg 480
 acgagtatcc gtagactctt ttggaaagca gcgctagatc ttcgtccgtc cattcctctt 540
 ttataaagac ccggtcgtcg atcaccatt tggtgtcgag gagatatcg tcccttgctc 600
 gccagtagac aaggtcttcg cgcgtgagta tcctgttcag cttctctgcc acagtcttct 660
 tttcagtcat atgccataga cagaacttcg cgccgtcgtt gatggcaagg cttcccttcg 720
 ttgtgaaagg ctcacggaga gaggaccagt cgtccatatg tcgtcgtgct tcctgggtgt 780
 ccagaaagac ctcgctatcg acatactctg aatcctccgg cttggactcc gtggactttc 840

cgtctgactc ggteccgttca aagagaccag taatgagcgt ccaacctgcg tagtagtggt 900
 gcaagttttc gtccctccacg agcgctcgga atgctgttcc ctgccgagca cggtttgata 960
 ggaatcgctc gtaatttgga tgaaatttca agggatagaa gggcaaagcg gtaatgtctt 1020
 tctccccgtc gaaatattcc atctccaatt tgcgccaaca gacggtgtat tcttcaccat 1080
 catggtccag gcagtatata tccgccagaa gacgtcctat gtcggaggac agccagccgc 1140
 tgtcgtcgat gctgatcgga tgatcggtcg ggattcgggt caaacatcgg aaaacagtct 1200
 ggactgctga tcgatccagc atcttcgtcg tcatgagcga gggggcgacg tagattagct 1260
 caccggctc aagcagcaat gagatttccg cataagacaa tcttctactg gtttgggcgt 1320
 ccagctgtcg gagagcggta tggatgggta ggatcgaact ttccacgaac tgaacgaagc 1380
 acttcatctg gtcaatgggc gacggcgaca ctgatggaga caggcctttg ggctcaggct 1440
 cgctgggggg gatagagcca gacgccagca ctctctctc catgtcagct aggatttcac 1500
 gcatgtcgtc aagatagact cctaagatgt aaaaggggta cataaacacc aagttgtcct 1560
 cctcattcaa aatagaaccg ttaccagct tgcgggttag acgttcgaga tgactgagca 1620
 ctgttggcga tcttatgccc acccggtgca acttgcggtt ttcaccaatt tttccggag 1680
 attcggccat cagaggcctg tgattgccgg aatatgtctt cttctcgatt gcttctctcc 1740
 tcctgagttc ttcacgaatc tcttccagaa ggttgggccg gccgatgcag acttcaatcg 1800
 tataatccca gtcgtcccc acagttcgat tcataaagcc ctggaaatta tagtatctta 1860
 ccccgagatt tactctccgg tcctctttca cttcatcttc agagtttttt ggcacgtccg 1920
 gtgagctttc cgttctcttc tccgtctctt tcttccgctc attctctctc tcagtcatcc 1980
 tagcttctgc cccttcactc ctagcgctcg tggtagtaga cgtggaaggt tctttagaca 2040
 tagggaccag ctcttggtca ggattgggcc tggaatctc ttggggatta atagaagaca 2100
 tgttcagctc ttctttcatt atttttctc cttggtttct atgaaaaagg tagttgagta 2160
 agctgcaaga ccggaacaga aaggctttaa gcgaggaaag aaaaacgaga cgtacgagg 2220
 attgtcgact caagagctga cgacgcgtat ttaatactcc tacgtgaact cggcgacagc 2280
 cctgtcagca ttaacgagag tgctagccgc agcctcaggc gtggagtaac gaggctgcag 2340
 tagtggcctt cacctcactg ctgtcatgaa catatccttg catcaacaaa cagtcgtgga 2400
 tgagagaaga ggggcacctt cattgtcagc cgaagacaga acggcggtcc tgtcagtagt 2460

agcaagggtt gtggccaaca ggctcaggcg tgaagaaacg aggctgcgct agctgattgc 2520
 tcatcccact gctgtcattc acgtatcctt gcaataccaa gcagtcatac acgagtagaa 2580
 gagggaagcc tccgactact cagctcagcc tctcagcctg gcgagcctat ggcagcatgt 2640
 cagcaatggg ataaatatcg agaaaccatt ttatctcttc tgcgctcctc ccaacacacc 2700
 gaacccttac gctttccagc ctcagaaact atcatgggca aagagaagca tcatttttca 2760
 agacacattc catggagaaa atctgagcca gcaacggatg aggatgaggc agggatgcga 2820
 aagaaaacaa gggctcagca cgcac 2845

<210> 3661
 <211> 7688
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3661
 caacgtctcg tgcattctta ctctacccat acaccagcga aagggttatg gaaatctcct 60
 cattgacttc tcttacctcc ttactcgcat cgaaggcaaa acgggctcgc ctgaaaagcc 120
 tctttccgat atgggcttgg tttcctatcg aaattattgg cggcttgtct tgtcatacca 180
 gctgcgaaat caaaagacgc cggtcagcat tgccgagctt tccgaacgca caggatgac 240
 ggcagatgat gtcgtttctg ggctggaagc attacgcgct ttagtacgag atcccgtgac 300
 cagaacatac gctctccgtc tcgattacga ctattttgag gaatgtattc gcggctggga 360
 aagcaaggga tatgtgacgc taaacccaaa tgcacttggt tggaccccgat acatcatggg 420
 taggaataat cagtcacaat tcgaccgcgc tcctatacat accgtcgcgc cagcgcaggg 480
 gcttgaagaa gacgatgatg aaagaaaaga gctagttgaa gaagcttcaa agcagttgga 540
 ggcctccaag cggaacagtc aagcgctggg taacggcata agtagcgcgg aagtcgccgg 600
 tacactgcat gaacctgcag gtctctcttc tatagattcc ctgtctaaca ccaatggcgt 660
 ccatcatcaa acatcaacag gcgcggccgg acaaaaggag tcgggacctt tgagcaatgt 720
 tccggcatgg cggttcgaaa tataccccc agttcaagca ccagtctcca aaaagcgttc 780
 tggccgcccc tttggggcga agtcatttca aaaaacctct atcactccga ctactactcg 840
 caccagcggg cgtactacgc cccgaaaggc cgcctccctt tcaacaataa ccccaacagc 900
 aaacgaacat agtggttagac gaggtcggag tgcgaagcta tttgactccc cttcgatcgg 960

aacggaaaac gtggcaacga acggtataga gccagatcag ctcgatctcg ctggtgaaac 1020
 aggaatcaac agcggccagg aggctgtccg ttttacgggt ggagaacaag ggaccccaga 1080
 tctatctgaa aatccgagtg atgccccaat accgcccacg gccaatggcg ttaatggatc 1140
 aaaagcggtc gaagagcagc aagggccagt gacaccttcg aaagggaaga ttgtcgaagg 1200
 cagagccaaa ctcacgcggt ccgctagtcg aaaatctgtt gtggagaaaa tcgaaatgct 1260
 tataccagcg gaggggtgaag gcgtcgctgt gcctgacgat catggaagcg atgtcgatgc 1320
 ggagggcgat atcgatatgg aggagacata atactttgct gacaggctat gatatcaaag 1380
 agtacgatct ggcattgacg ggcgttttga ttttccttat ttttgtctgt ttttcctcgt 1440
 ctctgttgtg tcaagcaagg agtgggcagg aaccggagtt cttaatggtc ttgtcttttt 1500
 gtctaggcta tcgcttttat ttctatcgat cgagcttctt ctcagacact gtgttgactt 1560
 gtgagtcggt ttggtttaat cagtagtgtg aaacaagtta taactgtgac atactccgta 1620
 tatctctccg taccatcgat atagacatag tcaactgttg ttcgccgta gtttgggcta 1680
 gtcggtaagc catcctccgt cctaattaca taagccatga ctcggccttt gcgtaaatcg 1740
 ccggctcgct aggaaactgg ggtggggaat cctgcctcc agtcaccacc agtgtttgat 1800
 tgacgacaac actctaaagc ggagattcag agatcatttt catgcgagag ctactcacia 1860
 ggctaaaaaa tggcatcaat gatctggcca ttgaaccgtg ccagtgaatc ggaaccgttc 1920
 cgggtgtaaag gcaggggaag tggcgtctgc gcaccagagc acgactcatg ggtttacggg 1980
 atacggactc cagactttac tactccacag caatgatccg ccataccagc aagctggatc 2040
 tactgctggc caacaatcta cgggggaaat cacagatcca aacctcgagg cgcactagta 2100
 aactcagagt gcttgttgtg gtatggatat gcgcaaaacg ccgaattttt gctgaagacc 2160
 aaccaggaag cctcacactc catctattat tgtcatcgca actatggatg cacgagaaat 2220
 tggtagagcc ctcacgtcaa gacttcgcag ttgctgcctc cgtgctgctc tgggctgtgc 2280
 cgaattcatg cccggaagct ggtagctgcg tagatcgcca ccatcatttg agttattctg 2340
 catgatctac ggtatccagg aacctgttca tgcacatgc acgtaccatg ggtcccacca 2400
 acgattcata taatcacctg cgggtgtcctc gagcgctggc cgagcatcct acagccttct 2460
 cggtaaccg tcagacgcag ccttcgtctg ctccatgcc aacatggaga ttccaccgga 2520
 cgttccatcc tgtgcagtat gtatcccata tccctttcta tcatccaacc gcagattact 2580

gacgtcttcc agctgacgtg cctgatttca gctgtcggta actcgacatg ttccttcaac 2640
gacctcgact gtgtctgagg cgatgcccag ctcaatgcgc agtcaacagc ctgtgtttctc 2700
gggtcctgca cggttatgga gtctctgtgt acgcttccgc gctcttcagg atccccgatcc 2760
tgccaccgct gaccgaactt gcagctgcca agaataatgac atacacatta tgtggatggc 2820
caaccagtga tgatacgcac gttttccccg ttaccaacat tgtcgggtatt gttgtcgcca 2880
tcattctctgt cgcattgcgc ttgacgagtc gtgctctgga caaacgattg ggctgggatg 2940
acttgctgat cttcattgct ctggtaattg accgtgacgg aatcaatggg acgagtgcta 3000
acgcaacttc agctttttgc tgctcaatt tccggcattg gacttaaagc tatgtacctt 3060
ggcatccacg gttgaaatgc tgctaataatg ctgcagtcaa ggataccggt ctcggaag 3120
atatatggac cggtccgttc gaggatatca ggccaacact caaggtaaga ccgctccaga 3180
aactgattgg atatacccca ctaatgactg ctgcagctgt tctttattga ggaagagctc 3240
tattgcatat gcattgctct tgtaaaatgt tctatgctga tgctctatct tcgtctcttt 3300
ccgaacaggg gcttaacgcat tgctgttttc gtcactctta cctgtaccct cttgtggggc 3360
gttgagcat ttttctctt actcttttct tgccgcccac tatctcacta ttggaactca 3420
tgggatgggg agcataaagg tagttgtctc agtcataacg atatccttct cgcacattct 3480
accatcaaca tcattcttga cgttgctatc actatcatac ctatgccgat tgtgcttaag 3540
ctccacatgc cgggtgggaa acgtcttgcg gtattgttca tggttgccgt aggttagcg 3600
tgagtctaac acacatcgct tctacatcga tgcttgaga actaatagta tgcagggtca 3660
ccattatcag tataatgcgg ctctgggaaa cagtgggatt caacagcaca caaaacccaa 3720
caagtacgtt catgtttgtt atattcacca gtccagcgga gtgctaacgc gccttacaga 3780
ggatttcgtc ccggtgggaa tatggagtct tttggagttc gatgtggcca tcctatgtgc 3840
ctgcatgcca gccatgagaa cattatttat tcgctcgtc acgaagccaa ctgacacctt 3900
tgcttacggc tcaaatcggg acaattacaa ggtcagcggt gcttctgttt cccaaactgc 3960
aaacagctcc cgtgcccggc agtcgcaaca catatcttca aaagcgtcc cgtccactgt 4020
aaccacggtc gaaggcgtcc gactagagca ggagtttatt cggctcgagg aagtcgagac 4080
cgaatcggga tctcttaagc aagacactca taactcttac gaagaccga ggactcgctc 4140
agcggctcat ttagtccgca aggagagttc ttgaacgcta cgtcagtcac gtctttctat 4200

attcttttgg cccaagcggc taggacactc tttatcattt catgtacata cttagcagct 4260
 ggtgtatgaa taatgaaggt ttttctctta tcaatattgc tctgctttcg atttattctg 4320
 agcctgaaaa gagtagcttc ctagccctt taagcaaggc tcctagctaa agagactttt 4380
 atatatccag aatgattccg ggtgatgtcc agacaccacc cctctactca ttcgccaata 4440
 aatgcatgac cgctttcccg tgaacattaa gccttcgccc tcaaagcatt ataatgctcc 4500
 ccaagtccat acgtatgcct ataataagcc aaccagataa cccgtttcgc ccgtcctcc 4560
 tcttcaacat cccagcctc aattttctca atcctcccat cgccctgcac gacattgata 4620
 tccaccccat aagcccgcc aatagcttgc agctccaact gcccgcccc ttccgctgtg 4680
 agcttaatct tccgctgta agactccagg ggctcctcca tgaacggttc gaattcatct 4740
 ttgtgttcag caataaaatc cgccgtcacc gcgcgcacgg ccctataccc gtcgtgtttg 4800
 ggacttgca ctgtatcgat ccgctctga gttgtgggtc ctatgacaat gcgtgagggg 4860
 tcagggcgca gtcctaggcc cagttcgtct agttgagttg cgactgcgga aaagaggcag 4920
 tggccatctg ggtttatttc gatttcttcc acgttgagtt tcttgaaggc cggtccatc 4980
 gcctcttggt cggtcccgcg atggttcgtt agctgagagg ctctctctga ggctgcggct 5040
 gcggccgcag tttgttctgc ggcgcgtctg gccaagcgcg ctttttgtcg gttgggcttt 5100
 ttggtacgag tgggtgtgct cgttgcgctc ggcgacgatg accctgatga aattgatgct 5160
 gatgctgaag cagaatttgg tgtcgttgac tctccgcag tgccattagg tgtgctcccc 5220
 aagtccttgg tatctccatt cgtcgcactg tcgccattta aacttaaatt ctccaagtcg 5280
 tcaacgggag gttcgctttg atgttgatt gtctcgccgg tcaattccgc aatctctgcc 5340
 tgatggcgct cggagagttc tcgttgagc cgctcgatt catcgtaac tcctcggcgg 5400
 gttttcttgg ttgcggactt tttcttctgg gtaatgcggg cttgtaaatc tttttgttct 5460
 ttgcggtggc gcgagaggag gtcttcatt ctatatggtt tgtgatcggg aggggtcgtc 5520
 gggatatagag taatgttaga agctggtcta tggggttgat tgacgaacgg gtataaagaa 5580
 gcagtaaaga gtgacagtaa tagaaatttg aaatgctatg cctattgcgc aaatgaagta 5640
 gcaaagatgg gctgatgttc tgaacatta aaactcgtgc cccacgataa gtatcccact 5700
 ttattaatcg ggtatagcgt ggtgatctat cccctctggg cctgggggtat tgccagcaac 5760
 gctagcagta cccttcactc gcacaacatt aaccagttgg atctattctc cgatcccata 5820

ccttgtagt gtatatactg atcaagttcc agccaatccc acctcactag cggagaatac 5880
ttcgaggcaa tatgcgattg tccgtcataa cggactaaca ttgttccgct catgagcctc 5940
ggcccagctc ggtctggggt gctctcggtt gaggtcgagc tggggaggag gcagtgcctc 6000
gatctttctg tacataagtc gcaagatctc ctgtagaata aattcatcct tttctcatac 6060
tgtgaacaaa actcaactca caatggatct ccagagccta ttcgacgtca aggtacgcaa 6120
catctccgca tacgtcgtgt gcaaacgccc tgtgcattgt gctacgaagc taatcaagat 6180
cctgtagggc aaagtgggtg ttggtcaccgg cggcgccaaa ggcatcggcc gcatgatctc 6240
cgagggttac gttacgaacg gtgcaactgt ttacatctcg tcccgggacg cgaaggcttg 6300
tgagcaagcc gtgaaggagc tcaatgcgct cggcaagggc aaggcgacg ccattccggc 6360
ggatttctac aaggaggagg atgtcaagaa gcttgctgag gagcttgcca agcgggaaag 6420
cagtacgtgt cctaccctag cggagaaagg aagagctaag gggacttcta gagctccacg 6480
tccttgtaaa caactccggg tcaaactggg gtgctcccta cgacgagtac ccgtcttctg 6540
catggactag ggttcttacg ctcaatctcc accgtgtctt tgaccttaca aagctcgtga 6600
ctcccctact ggagaaggca gcggcgccga acgacctgc tagaatcatc aatatcggtg 6660
gtatcgatgg actgagggtt cgggcgttgg agacatttgc gtacagtgtc agcaaggcgg 6720
gcctgcatca tatgagccgt gttctcgcga accatctcgg gaagaggaac attacgtatg 6780
tgctttgaac cgctgctcga ttgttttggt ggacgtatgg gaagtactg acctagcata 6840
gatcgaacac tctcgctgc ggcccgttcc agagtaagat gatggctgca acgctgaaga 6900
acttccggga gcagatcgag tctggtattc cactaaaacg tatcggtacg ccagaggacg 6960
ttgcaggggc ttgtctattc ttgagtagtc gggctggtgc atatgttaat gggctcgacg 7020
tcgcagtcga cgggggtagt gttgtggctg cgaagctgta gtaaataat tttgggtatt 7080
ataggaatga tagaattgct gggcagacga catcaccaac taatcaagtg gagtgttga 7140
tagatagcgc ttaagcaggc aagcttttgc catcctcaat cgcaatttct ttcagtagtt 7200
tgccagcgct ttgttgtctc catacgatc gacactatga ctacactctt ttgccaactc 7260
tcaggccttc cactaaccag atgaccttct cagcaciaat cgcacagacc aaactaaaca 7320
actgattcgc aaccacgcgc cacgatcttc aaaggccaag acttttttga cattcaagaa 7380
ccgatttcgc ggtgtcaatt gccgagcctg tcggtttgtg gattcggttt gtggaggctg 7440

aggccttcac tatagaaaaa aaaacgccaa cggatcctga caattggctg gcaatattcc 7500
 ctctcagata aagtaaata gaagctttcg aaaggatccg tgggggtggag agcatcgctc 7560
 gacgatattg gatttgtaaa tgcctcaatg gatctactgg agctatctca tctacgcggc 7620
 agtggaaact atcatcaaga gctgacgggt gacatccact aaactcgacc gttttgatta 7680
 gacctttc 7688

<210> 3662
 <211> 6144
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3662

tggaaatggc catctcgatt aaaaccctta ctatttcaat cgtgaaaaaa aaaaccctta 60
 tttttaaaca ctttgaaca aaacttctta acagggccct gcccatgccg gaagaaagtt 120
 ctccaagtaa tggtcaactc acactgtaaa tctgcttcgg ggccatgaat aatatgaagt 180
 taggagtatg gtgcaaagaa agtgaagcat gtaaaatgga gaatcaataa ctagtccccg 240
 cgcccagaag ctcccttatt gattcgtacc acgtagtacc tatctattta ataccacaac 300
 tgaaattcgt ctgttaggcc caagcaagag ttagtagtagg taacagcgct caactcggtc 360
 acgtgctatt tttctcgaaa ctctggcttc gtagacaaat aacaagaact tctaattctg 420
 ggccctcgaa aaagcctcca atatcttata aagtcattgt tattgcagcc aaacagtata 480
 gccaatggct tccagcatgc agggcggtta aaggaattaa tcatgaaaag tggctctgtg 540
 ctggactcgg aaagccttct cgaagattga aaagttcaca gaacgcgcaa gcacctactg 600
 tcttttctgg aatccaaccc acgggcgtac cacatctggg taacttcctt ggcgctcttc 660
 gtgaatgggt taaaattcaa gaagctgcca ccgagaacac caagttgata ttctccattg 720
 ttgatttaca tgcattgact gtgcctcagc aaagcagtca gctgaggaaa tggaggaaaag 780
 aggcctcgc aacattgata gctgtgggtt tagatccaaa ccggtcgaca atattctatc 840
 agtcttctgt atgctgcaat cgctccagct tctactagtc ggctaattta cccgtcaggt 900
 ccccaacat gctgagttat tttgatctt gagtactgta gcttctacgg gttatctatc 960
 tcgtatgact caatggaagg tgagtttcga gtactgcaag tcattctgtg gtctccggtg 1020
 cgataacatc cgcagagcaa actccaactg ccagaggatg cgagcttgga caactccgag 1080

gttc gatcaa atctacgct tgggtctcttc tcttaccag tgctccaagc tgcagatatt 1140
 ctggttcata ggtgtggttg ccaacagttt tgatgaatat catttgctaa ggtgatacag 1200
 agccactcat gttccagtcg gagaagacca aagacaacat ctggagtttg ccaggtatac 1260
 cgcaaatagc ttttaaccatc tatatggggc gatttttccc tctccagaag cactaatctg 1320
 tgagcccgtt tgaactgtat gaacgatttt tggactaact gtcgttagcc cccgcaaaga 1380
 gagtaatgtc tctgaaagag ccgacactca aaatgtcgaa atctcatgcg gatggacgct 1440
 cgagaatcat cctcaccgac tctcctgagg atatccgacg aaagatcaaa gttgcactca 1500
 cagactcaga gcctggcata acttatgata cgatacgccg gccgggcatc tcaaattctca 1560
 tagaaatttt cagccatctc gaaggaaagc cgtgctctga gattgcctca ttgtaccagg 1620
 acgcaacccc ccgtgctctc aaagagcatt tatctgacaa aatctgcaa attttatctc 1680
 cgatcagaga gaagtttcat gcggtaatgg cagacggcca tgcgttgagc gcgatttcag 1740
 agcagggggc gcaggaagca cgtgccaatg ctgagattac tatgaaaaaa gttcgagatg 1800
 ccatgggtct ttgaagccct gatgctgtgc tgcgtccatg tattttcaag ggaccaatca 1860
 gtcccgtata gcatgtctga gcgttcaatc cagactata tacgcgtgtc acatatcact 1920
 tttaatctgt tcaactcttt atggtagcca cacaaatgta tatacatttc ttacgatgtt 1980
 tgactctaag cgatctatcc acaagtatct gtagctagct aattgectgg attgggaggt 2040
 gtacgttact agttatagaa ccatggggat caccgcgcgt gccacaatac cctagttcca 2100
 tggaaattcc cagcccggtc tcaaacttat tcttaccgcc aaacatctgt gccttctgag 2160
 ccccgcttga cctcgcagaa gcaatctaga tgggtgcctag ttgagtatga gggcccgag 2220
 tgggattttc aaataccatc agcctattac attgaagccg gcgatcgcgg acaattaagg 2280
 tttccggccg gtccgacttg gcagagctta cgtcgctttc agtcattatt gtaggggtggc 2340
 ttgaatcctt ttatggagtc tgttatcgt tgtattattg tggttgtatt caacttttta 2400
 aacctctgca attcttttgt gatgattcat aaagcgttca ccaactcacac tatatgaggg 2460
 attgttcgtg gacctatctg tctgatagta ctgctacaca tcatattcaa agagtcctat 2520
 cagcaccttc agatacaaag tccagacaca ggccagcccc cggatggctc cccactgtca 2580
 gcctgtacta ctactagctc agtgggtgacg acaacacaag atgcgacata gaaccagtgg 2640
 atcatagccc cattcaaagc cccctcccca atccaggcag caatagaaat acgacaaatt 2700

acaaaaagct caccatgtcc cactcattca agccgagcaa aatttcacta tttgttgttt 2760
 aaacagagac agccaatcac cccagacaat caaacaacac acctgatctt cgagcactta 2820
 cgacagcagt tggagctaac ctgcggcgga agtccgccgt tgtatcaaca agtgcacaat 2880
 gtggaagggtt atttttgtta taggagcttt tctcttcaca agatgctcag ggttggtctt 2940
 gatgcttcga cgaagtgact caccatcagt agttgagtta aatatccatc gcagtgcgat 3000
 tccagaccct gtagcaaggg accgaaggag gcgaaaacga gaccaaacag ttgcgcaact 3060
 gatagacaat gaggtaagtc agtaataagt atatatgcca tcgtacttac gtccctatag 3120
 gaaacgctgt atttctgcaa cctaactgtt ggaactccag ggcagagttt gcgattaatt 3180
 cttgatactg gtagcagcga tttatgggtgc aacgccgcga attcaacact ctgttcttct 3240
 ccgaaagatc catgtcgcac atctggatca tttgaccaa gctcgtcatc atcttattct 3300
 tatatatctt ctgatttcaa cattacctac gcagacggaa ctggagccgc cggggactat 3360
 gccactgaca cagtcagtat tgggtggtgca acaattaaag acttccagtt tggaatcggc 3420
 tacacatcca gttcagcagg tatgttgaga aaatgttttg ttgtatcagt agctgtaata 3480
 ttgatagctc tcagagggcg tcttaggaat cggttatcca tcaaatgaag tccagggtgc 3540
 tcgatacgga gacgatgctt atcccaatct tcctcggttc ctgatgcaaa atggatttgt 3600
 tcagtcgagc gcttatagcc tctggctaaa tgacctgaa gcgaataccg gctcaatcct 3660
 gtttgaggagg gttgatacag agaagtatcg tggcgacctg caaactctcc ccattcagac 3720
 cgtcaatgga gagtattctg agctgataat agctctcact ggcgtctcgc tggatactga 3780
 agccaggaag catacagtgt cttcaaacgc gctaccagca gctgtgctcc tagactccgg 3840
 cagctctcta tcatatctac ctgactcaat tgccgaaaaa atatacgatg accttcgcac 3900
 ttcctatgag ccgtccactg gtgcaggata cgcgccatgc agtttgggcc ggcaaaatat 3960
 taatgtgacc tttacgttct cttcaccga aatcgcgggtt ggcattgatg aactcattat 4020
 agatgcogga gatcttcgtt tttctaacgg tgaacgcgct tgcataattcg gccttggtcc 4080
 tgctggagat aataccgctg tactagggga tacctttctg cgcagcgcac atgttgtcta 4140
 tgatttgaca aacaacgaga tttctatcgc caaaaccaat ttcaactcga caaagagtaa 4200
 catcctagaa attggaaccg gtagtgacgc cgttcctgga gctacaaagg tatcgcatcc 4260
 tgtcacttca gtagtggctg atgggtctgg gtctagaatt ggtgcgcaa cgaacactga 4320

agatattgtg ccatcggcga gtacaggcgc agcgggtgtg ctagggagat cgacaatatc 4380
 tccggtgctc gttggcgctg cagcattggg gtatatgttt gctttttgaa attttcgtac 4440
 agataaagct gatttctagg tagatgaata tcaatataag accctttgaa catgatgtac 4500
 gtgcgtataa gagaggctcg gggaatcaaa atcagaaata ctttaactag ctagctcaga 4560
 tcggttctag agtaagatgt gcgggcagat ggtgagcaag taccacactt gtaggcgccc 4620
 ggagataact acttggtgta cacttatgat cgacgtgctc gaggtgtaaa cagcctagtt 4680
 tggttatcat ctatcccgtg gtgggtctcc cacctcttgt accctacttt cagtactagt 4740
 gctttgaaca tgttctgcag accgcgcact atccggggcc gtctcggaca atccgccgag 4800
 cttaaaccac agccacacca ccctgtggtc cagcttgcaa ctttttgaaa gttgtctcgg 4860
 tagggctgac ttcggaaggc ggccgaatca ccacctgagt acagactaat tatgctgagt 4920
 ataaaatcta gtcagtccca tttgcgctga tcccgcaaa gacgatccaa atgccccggc 4980
 tcacaacaag ggctatcctc gaagcaaaca aatacgaccg cctacttcct cttctcttaa 5040
 aagagtgtcg ctcactcagc tctgcggtaa atgagtttcg atggcttcag gaacgagcac 5100
 agcgtgtcgt atctctgaag tcgatgcacg acaggaatgg ctggaaacaa gccccgtctg 5160
 gcaggagaag gctcctgaaa tcaatgtgtc tggcacgatc caggggtgtg cccctccagt 5220
 atatacttgg tgatcagccc tttggtgaac ttgacatcaa atgtacgaaa ggtgttttaa 5280
 ttccgaggta acatttcctg gccaatTTta catttaagca gatccgaatc tctcctaadc 5340
 tcccagcata tcaggcatga aacggaagct ataactatcc acaccgcgaa gctgatacag 5400
 gatcgcata cctgtgtgga aagggatgga gcagcacccc tacgcatctt ggatctgtgt 5460
 acgggcacgg ggtgtatatc actacttctg cacagcctgc tttcgccctg ttttccgca 5520
 ttatcaattg tcggtgttga cgtagtgcc atagctatca gattggcgaa ggaaaatgtc 5580
 gagcggaacg ttcgcttggg attactgtca gaacgtgctc taaatgaagt cgactttcaa 5640
 cacggcgatg tgctcgggct tagctctggt cctctctcac aactggaagg ccttttcgac 5700
 cgtacgaccg gtctatctgc atcttctgga cctcgtgtg atgtcatcat ctccaacccg 5760
 ccgtatgttt ccgtcgaaga ataccatgac ggaacaacat cgcgcagtgt ccgattgttt 5820
 gaaccaaggc ttgcactagt gccgccggac agtactcttt caagtataat agaatcaaag 5880
 catgtccggc gtgaagacat attttactat catatcgcac gcttggcagc actttttaga 5940

gccagaatga cggtgctaga gtgtgggaac cgttcccagg caaaaagggt cgccacccta 6000
 tgcaaactctg tcaactggaga gcatgggttat tgggatggtc cagtactggt tgatgttttg 6060
 tcagtgcagg gctctgatac aggtcccagt gcagtgatta tatatagtc tagatgataa 6120
 cttgctgctt tgatgtggat cgcg 6144

<210> 3663
 <211> 1406
 <212> DNA
 <213> Aspergillus nidulans

<400> 3663

cctaggaagg gaaagcaatc ttctaacgtt ccagaaacct ttgaagagaa aaccttggtg 60
 gtaccggtaa ccggtctcta taaccaggta tacattaaca gcatttatca agcatatatt 120
 acctaggaaa aacttcaata actagcctat atgttaagt accaccattc gtgatccgcg 180
 atggcagtta ttaggatctc tcaacttctt tgaccggcc agtcaagcca tcaagatctt 240
 ctgtctgtat tccaaccctc tctcacaagg tcttcggat cagattctcg cttatcatt 300
 tgccaacgag cagcattggt accgccattg aagtgttca agatggccta agacttcgga 360
 agcgttgctg aggcacctgt attcgagcat ctgccgcgc gccggtacct gattgaagaa 420
 actaggcctt cacatcctat atgtgtgagc ggatagaaat gcaagcccaa aagcgacatc 480
 gtgtgtagac cgccattatc gcaaagaaag cacagctttt ccctaatttc cttcagctgt 540
 cttctaacc tgaattgtga atagtcaacg ccaagccgt caagcacgag gaccattct 600
 cctcttcatt attcctaata atatatgcag caaaagtaaa gaacttactt ccctattctt 660
 ataatccggc ccaaagcgta gcctctttac cttttactga ccctaaaagc ctggtaccgc 720
 caccgccatt tgcagaaata gccctaggta tgtaagctcc agcgaagag tttgaggtca 780
 gtaaggaagc gttgcatagt cttgttcaaa ataaccggt aatggatac tggttcttct 840
 tctgtcggtc attaagagca agaacataag actttccaga gccacgcaag cctagctagt 900
 tcgcaacacc aggggttttc tttcaaaaaa acaaatgact ctgtggatcg cccatcaaag 960
 cagcatgaat ttgcggttcg taatagacaa gaactggggg gtttgagagg atttatataa 1020
 tgactaaata ggaccaactt gtaatttggg ggatcgggtg gctaccttga gtaagacgtt 1080
 ggaagagcca acaatcgaag ggtctgcgcc tcatctgtac acccctaggc tagtataaac 1140

tgtgctcacc aaatgcgcta cgcgttatca ctagccatat acataggcca caagtacgtg 1200
 ttaagtgtgc agctcaagct accctacaaa gagattggca taatatgcaa taaccgttga 1260
 tatcgggtgga gggtcataga tgtcgaggtc aatgactctg ggaatgactg aatagggtta 1320
 gggtagagag atctacagac tccggctcac acaggctgca tatgcggcca gcgttagatg 1380
 ttacggggat ataatagact gcgagg 1406

<210> 3664
 <211> 2757
 <212> DNA
 <213> Aspergillus nidulans

<400> 3664

ctcattccat cctgttgggg tcaagttagt tcccaacagt ctgtacgtgc acccagttag 60
 cctgattagg tgagcacgct ctccaggcgt tttttcacca tcttcgaaag ccgggggctaa 120
 taatctcatg aatggctagc tgaaccctac cctggacttg ttccaggctc gtggtagcct 180
 atctcatgtt catggaatcc agtgctttca gtccgcgacg cgcgtattga tagaacgagt 240
 gtccaatatt ctcatgcagc gcagataccg aagccccaag tgtccagatc gcatattgta 300
 agcacgactg agcctcagtt ttgattggct gtcggcgcca ggaaaagtag caactctgat 360
 gctgaatggg cataaaatga tggatccggc cgaaatataa ttggtccctg tactcattta 420
 gtatgcttgt cctgggtgaa gacgaaatgt actgccggct tacaagtctg cctggatgag 480
 atctgagatc ttaggctcac atatgtctc cacattctcc attcccttta tatgtgaacc 540
 aacgtccggc attgtcagtt caacgggaat acttgaggat cgggtgcgggg gagagatcga 600
 gttcacccca gagccggcat tggatcatgat tgtccccgac gaactgttag ccttggacgc 660
 agcgtacacg ccgttcaacg aagactcgtc atccatcacc ggcaattgcc atccagacag 720
 gtcgatctgg tcatccagca tgggagtgtc tagcgggtga tcatcgttgg gtccactgaa 780
 attggtagta ctctgttgca gcaaagctcc ttcgagggca gctgtaaaag atacgataaa 840
 caatgtcagc ccctgtctg acgtcttctg tcatatggga atgaaagtat agcctgggtg 900
 accaccaat gcgttctgt aacaccttga gatatccacg cttcgggccg cgcgagggtc 960
 ttgccgtgat gacctggcat tctacaccg atgcctcgca cagtctgcat tgcggttgac 1020
 ggcgatcaca ccgcagcttt cggcgtctgc actcttcaca tgcagcgccg ggtttctgac 1080

ggggttttgg ggattcgggtg ggctctgggc ttttgacatg ttgagacatc ggctagctgg 1140
 ggttcctgaa tcggcgggatg agtgtatcta ggggttgcaa atatagttgc cgccaacctc 1200
 ttttgataca gatgccactc gagacgagtg attcctgacg ggcgcaactg gggctagaat 1260
 gtacaggtga agaaaaagct tggggggggtt ggcaactctt ggtactcgac ggcggaacca 1320
 caaggcagca tatatatata catggtttca gtcaagaatc ctgccgatga cgggtggggac 1380
 gagaagacaa ggcgtagtct tacatttctt ggatagaaat gtttttattt ttatttcggt 1440
 ttcattttta cttttttctc ccccatata aacgctcgcg gggcattgct gggcgtgcct 1500
 gttgcagcag acatgcatct agtgtgagca ggggcacaac gctggtcaat cgagacggac 1560
 caatcgggtg ttattataga cgagatatat caagttgact cagataaaaag ccaggataat 1620
 acgatctgaa accccaccag caagagatcc aattgccagg tcaagcttat gggttgccat 1680
 taacgcgaca tcggcggcgc gctgacgga cgctgcagcc cgccgtcgga caccagagc 1740
 ccatcagggt cctcctggcc ctattgaaca gactggccga atatttgagc cgcaagcatt 1800
 ttggttttca ttctcaattt ttgctttctt ttctcggtca tattttattg atagtccatc 1860
 aatgagaatc cttctcgctt acagcctttt tgcagctgct gttcgggtgg agacgagcca 1920
 agccctagct agtggatgtc ccacctaaga gggtgctaag ttcatggcag acgtgcagtt 1980
 cactcgacgc agagtttgga tactagaagg gtatattggt atatcagtat acatatcggc 2040
 tgaaacaacc aataatgagc tggacgaatc aaatctggtc cgtaatgaaa acttaggaga 2100
 cttcttcaga tattcgggtac atggcgggct gtaaaaccgt cgtctctttc tacaggttgg 2160
 gttatttcct cagcgctaag tatggtcagc gccaatatca agagtattac agacgacgtg 2220
 tgcaaatttt actttgaaat gtagaactaa taaattgcaa taactccttt tgtcaggatg 2280
 cgagaatttg aaaagcttac catgccatgg ccagcactt caaacggcgt gatcaactac 2340
 aggccacgcg aattcgacac gaggctggcg atctcgtcag ccaatggatg gggaggggaat 2400
 cactgtgatt gctcttatac ccaaaggag cccatgtcgc tgcacttagc cacgatactc 2460
 cgggcaacct gcttggtgctt caatcctagc caatagagcg ggattgctgt tgtatgccgg 2520
 tacctttttt aaaaaaagggt ggcttcgtta actatcctgg attgcacatt tcccatagct 2580
 tttcaattac tattcatcaa cagccagttc atcatcttct ttgggtcacg ctatatgaca 2640
 ttgttattgt ccaggctaaa ttgaagattt tcttctcggc aaagaccgtt agcgcctagt 2700

ggcggtagaa tctgaattga gtctccctct tagacttttg agttggagtt tcaaggt 2757

<210> 3665
<211> 4481
<212> DNA
<213> *Aspergillus nidulans*

<400> 3665

atgcttcgcc cggcgtccag ggtgactatc aaggaatagc actggaaaat gtcgatccga 60
atgttttgac tcccggctct tgagtggctg attgagctca ttccgcttgt tttttcccta 120
ctcacgctat ccttattggg ttgtcgttcc tggaaaatgg aacaaccaga gcgcctcgcg 180
tcccggaaact gaccggctag catcatttat tgaagcaact ccatctatta tggaaatatc 240
ggctatgtgc cgatacttcg tcttttggcg aagagggata tatctctgtt tgcgacatat 300
gttccgaaca tattcatttt tttttctcgt tgtattaata tccttctact tcgcggcccg 360
cccttagcga tttcttaaag cccacacagt ggcatttctt atctttcttt cttactttcc 420
cctcttctgt ttaccatttt gccttttgcc cttggccttt ttcttttttt ctttttattc 480
ctttacctgg tcgggcattt aacgcggtca tgcaagaagt cggactaaga tggcgattcc 540
cttttgattt acaggtcggc gggttaggat ttgtttgcat attccctttg tgattgattg 600
tgattgagcc tccatttctt tgtgcattgc cctgcttcta agtatctatg cttataggag 660
ctgaaaatct cctgctgcga gtgaggtcag taattaatcc acaggtttca ctcacattat 720
ctctagaacc cataaatgta cagagaatat catagttata agccgtaaag tgacaggggt 780
atcataatat gtactagctc taattgcagt catctctcga ctcgaacccc cttggcgccg 840
gagccttcaa ccttttgac tccctcaa atcgctctac ccagacttcc attttttcaa 900
gcacattcct ctttcccttt gtcacctcct ccccgactcc gtcccgcacac caaacactcc 960
atgcccccat ctcttagcc atgagcacat ccgtcccaa ccgatctccc acaacagcaa 1020
tctcgtcggc tcgctgcact actcctcgt cccggaacca ctctagcacc tcatttccac 1080
agaacggctt tttctcaaca ttcacgcct ccttcggtga tgacggtaac cggaacactg 1140
gaattttgag ttctgccaga cgctcttcaa tctcgagagc ctcggattcg taacgcggat 1200
gcgatccccg acggttcgaa acgatgagga tggagtttgg ggcagtggaa atgttaaattg 1260
gagatgtagg tgagttgcgg agcgtatgga ggtgcgcgta gatcttcgat gggaaagtcg 1320

ttgtcttcgc gggacagagc gtgttgtctt tatcaagaat cagggcgcggt attgttattt 1380
 ctgcgccttt ttcggttgc tgacctgctt ttcggccgta atgggtttca aggagcggac 1440
 ctattgactc ggggagctgg gtgattgttg ggactgttag gtgcggcagt aactgggatg 1500
 gtgtgcttag aagggtttga acggcgagat tgaaggcgcg gatgttggtg tttgaagggt 1560
 tcatgtggct cgggccaagt atgccgcact gtctttagtc agtcgtatat acgtacttgt 1620
 agttcacagg ctgtagtggg tcgtccgtaa gtaagtaggc agtgtgttga aatttccagt 1680
 cttgacaaag gatccagcgc caaacctcc gccatcagac gcgcgacaac cagctttcct 1740
 cctctgcct ctcaattgtc cacctaccaa gccccgctc ccttcattct tattctttat 1800
 acctgatctt ctgcgcacag tcatagatag ccaagatggg caagttaacc agcacaatcg 1860
 gtatcccgat caagcttttg aacgaagcgc aggtacgctt gactgtcgcc cttgcggata 1920
 tcgcaacaag accctggaag attcaattta cagatgagct aacggtctat agggtcacgt 1980
 tgtcacctc gaaatcacct ctggtgtcgt ctaccgctgg aaactcctcg agggtgctgg 2040
 ccatccaacc caccttacac cgtacatttg aagactgaca ggtttcgata gcggaggata 2100
 acatgaacgt ccaactgaaa gacattaccg tcacagcgcg cgatggccgc gtctcgcatc 2160
 tcgaccaggt ttacatccgc ggcagccacg tacgattctt tattgtgccg gatatgctac 2220
 ggtgcgtcca gtctattctt ctatgatccg tttcggcag cttcgagctt aaagctgac 2280
 acttactcgt tctatagaaa tgccccatg ttccgtacac gaggacagcg cggcagaggt 2340
 gtcggtctgg cgcgtggtta ggcgacggtg cagagggccc ggggacagag gagaggatag 2400
 gtgtattgaa gatgaaaagg ggtcaatcgg atcagggctc agcgaggtag gtaaggatac 2460
 taccggactc gaaaagacgg attttctgcc cgtcggtaaa agtgtccgtc agggcgggga 2520
 tgcggccgtt ggggtttatt tcgaggaacc agctgttgca atttagttct gaggtatggt 2580
 gtagatagga agtgagttat acggctcctt ctggacgttc ttgctgatgt cgatcttctc 2640
 gactttgtag gggatgctgt ggcaagttaa cgttggtat agatataacg gtaagttgac 2700
 atacccaat tcctctaaag caatggagat tttaatcca ttgggggtct gggctgtgta 2760
 caacgtgata tccggcctag acatgacggg tgaagtagta gaaaagagcc gattgtaggg 2820
 acgagatgaa gctgagttta atagttgaga atgtttaaga ggaatgcgga gattggaatt 2880
 gaagctgaac tgggagaagc agcctttaag tagcctaaga gcaggcggtta ccccgctcat 2940

tatctacaca aatccaatac tctattatta atgaaggtgg tgcaagtcac tttgcctggc 3000
 cggagatccg gcatttgtac tctgtactct gttcggatcg gatgcgatga tgccatcagt 3060
 ccctcgacat ccggagaccc cacaagagct gatttctaag cttcggtaat gagcttcgtg 3120
 ttcaccaact aacactggta tcttgacaat tagcgatgaa tgattgacga ataaaaataat 3180
 ctacataagg gcttttctaa cagcggtaac agaatactgt catctttggc agtctttccc 3240
 tcgctctatc caatcggttt aaaccgtctt cctcagagct ccagccttct atagggctct 3300
 ttactctgtg cccgcggcct taagtggaat catctaattg cggggcgctg cagaaagtgg 3360
 cgtaaagtag gacagaagcc atgacaaggc tagaattgaa atatctacaa cgaaagtgtg 3420
 atgtgtcgac actaacctac ccaagctgtc tgctagatga gccctaagcg cctgagaaac 3480
 cagcattttc actagcaacc cgaaaagctt gatcgcttga tctgaaagcc tcatattctg 3540
 gccatccgta agattcttta catcaaccac tctaccccg caggcttggt taagcagact 3600
 accacgtgaa actctctca acaaaatcaa tttgcgtccg atcctgtcga gtccggcagg 3660
 cacggcgaac atcgtcactc aaactgccat taccgcagac cagcacaccc atagccccga 3720
 cctgattctc aacctccatc ccaataagtg tgctgatgtt cggtcgtccc gggaacatct 3780
 gcacggtgga actggggctc tggatttctt tagtattacg cggccgcgtg atgaacagct 3840
 gaatccgcag gacctcgcg cggcggttca tggccagaat gctggtcatc cagggtcgga 3900
 tcccctcaa gtgctcagga gactgaataa tccaaacaag agtgacgcgg cgtgcagcca 3960
 cagttccctc cgcgtatccc ttgacgagat ggcggcagaa tggcaccaag tgcgtgatgc 4020
 cgacacctcc agcgaacaaa ataaccgacc cgtacgagtc catggagtga atgctgccat 4080
 atggcccttc cgaaaagct gtaagagaga ccttgcaatc gacggcgctc acagcgcgct 4140
 ggaagagctt gtcggtgaat ccagtccggc ggcgaaccag cagagagatg gttgtttttt 4200
 gagggccata aacatcccga ctgcttacag ggaggctctt ctcgtcgccc atgacgtcct 4260
 ccgcatcact ccatccaatt gagaaggggt gggacgtcca ccagccaatt gcgggaatat 4320
 acagatacat atgctgaccg ggttcaaagg cccatgggcy cgacagcttt agggtgattc 4380
 tcatggcgtc accgggcagg gcctccacca cggcagttgt agcacgccct ccgacgttgc 4440
 ggtacactat gatcacaaga cgtgcaaatc tttccaacgc c 4481

<210> 3666
 <211> 3167
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3666

```

ttagcttact gcattgaggg gatataattta gtcgatgcga atagcttcaa cccaatgcg 60
gagaactata ttttggtgga tgatcggacc gcatggtgaa tcacgcta at ggcttaggga 120
ggcggcgtgg atgactaaac aggggaatca tgcgacttca gagaaagacg tcatacttta 180
ttggcataat ccgcattctt gtgctgcagt ctctcccaag tcattcgaaa gacgcacggc 240
taatatctca gaatgcattc aggtgacgaa gggacatgtc ccgaagcaag gcactctcat 300
acctcacaaa gaaagagcac taagtatctc cctagcaact gtctgaaagt gagaagcgtc 360
acttcagtaa gtacggaaaag ctgctgcgtg gaggtcact tggtaaaaga actaaggtaa 420
tagaacattg tctatcacgt catgtgctaa taaagagcta taaggaacga atgtacttcg 480
actccggcga ctctgctctt tccgctggta attgcgagac ggataatggg gctatccaaa 540
caggaaaaga gcacccccac cgtgacagca ttctgcaccc ttacgccgct atcccagccg 600
cgagcaatgt tgataagaat gcaaacgaag acctgtatag gaggagtgcg agccctgcaa 660
cgagtcctct cctgcagcag acaaatttca aagatcaagg atccaaaaag gatgagggac 720
aggataagcc agcctctcaa gactgttaaa acggaactat ggccttcaga ttgatgatat 780
tatttaacag gatagcaaga gtagcacaaa cagtgaatag gtttcgtgca ggagttttgt 840
atactttgtc tagccacaat caaataggca ttcgagcaag aactctcaca tctagggccg 900
gctccttgcc atgctgagcc ctgatctatg ctatattatt gggcctgctc tccttggtta 960
cataagtacc gagccacccg accactgaag caatcatgta atgtatccta gaacgcaaga 1020
cctcgatgta agaaatagtg tagggcatgt aggtagataa accaagacat gagaccatag 1080
gatagagttg gccaaactgt tccaaggggg aagatcggtc acgtgatagt ccaagcaaaa 1140
ggtgactcgg atttcaccga gctgctttcg cacccttctt tggatatgtc atcgtttgca 1200
taatcctgtg catcgccgga tccaatctca gcaccgaggt ctggcaaagc cttacccccg 1260
acacgtccaa gtccttgag cgagcgcga tctttttcat aaacctccag tctcgccttc 1320
aactcatgaa cctcccgctg cagactctca atatagttca gcgcactatc gataatcgat 1380
gccttggggc gctgcgatcg attggcctgg gtcgcgatgg cggatacagg tgcagacgcg 1440

```

gggccttctg agttggaatt cgcagagttg gaacttccat tggcattggc gatatccgga 1500
 acgaaggtcg gatcggtcct gcagaagacg atctcgtgga gcttgcgga cttgctgttg 1560
 aggtttatgc ggtacggctt ctgcacgatg ttgtgcgagg cgcgacgggt ggctgtgcttg 1620
 gtttgccgct ccagttcgtg caggcttagt tctggtgcgg agttgcggcg gatacggtcg 1680
 agtttaccgg gtgtatggtt gggatggaga ttccgtaggg aggtcggatt tgtgggtgga 1740
 aggagatttg cggtgccatg tgaggcggta tttgaggtgg cacgggcggg gattggtggt 1800
 gctgttgttg ttgttgttgc tgctgctgga gaggagaatt gccggactcg gcatcgtccg 1860
 taggctgcgg cgattcgaca aagggggata tgttgaagtt gatgggcaag ccctcctctg 1920
 gcgtgattcc ccctcctccg gcaagagtct gaggcgtcag ctatggtggg ttaaatgcat 1980
 gaccaagggg gcgtacgttc tgggacagcg ggccgagatt cataaactcc gttccgccta 2040
 ttgagatctg gggagccaac gcgactgata gtaagcaagt ttaaaaactc gttaactgct 2100
 ggattcatgt ccaacgaaat caacacaacg cgcgaactac ttcttattct cttgtcttcc 2160
 acgtgcagtc atgaagctca aacagtctac aaagcttaat ccagaggctc acttgatata 2220
 tgcgcttcgc ctgtgcacca aactactctc caaacatcca gatctaaggc tcagcaacag 2280
 agttattaac gttcttaatg aaatagataa cctatgcaaa gacaatcgcc aatgcggctt 2340
 agcgtatcgc aagcgaaaac agaaagatcc tgcttaccgg cctacgaagc cgatcaaacg 2400
 cgtacgcatg gcgcccacag ctcaacgtgt tgacttggat gcttctcgcg acccggaaca 2460
 ctttcccaat aatacatctc gcgataaaac ctatcctgaa acctttccac gaacctctgg 2520
 cggaacctct gacggccctg caacatcccg tgatgctatc tcccatgcta cctccggtgc 2580
 gacaatcgat ccctctagaa cttgcctga aacgttcggg catccatcaa taaacagcca 2640
 tccagcctca catggcgcaa tcggtcaccc acaagaacct gcaagtgaac cctcttgcca 2700
 tgtgataatt cagtgcgatg caacctctct agaggccttg aactcctccc gagaagacaa 2760
 ctgcgagacc tctgcgagc aagcagctat tttccacgca gtctctcaag aatcaatggt 2820
 cgcccacaag aatatgctcg cgtaacttct ttgcactcac taacacgctc tcttgaacct 2880
 tccctggacg cctcagcagg cgatgaaacc acctcttgcg ctcaatcaat cacggtagca 2940
 atggcgattg atacactccg tcggttcata caggagcttt acgtgcccc cccagcatat 3000
 ttatgcagag atagtacgat ggggttagga gaaccgtcag atgcgatggt ccggtcaccg 3060

atcgtggagg tatagccttg gacatctttt gccacggctc aagcagtgga actcaaaaac 3120
 cctcttggga acattggggc ctcggaaggg tttatcagcg aggtatg 3167

<210> 3667
 <211> 1019
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n' locations
 <400> 3667

aatcggagcg cggagaaagt cctaggggtga agaaaccgac gggctgtcag aaaatgacgg 60
 tgttggtcct gcccttccaa atagaactca tcgcaaaagg attcaacgac gtaacggacg 120
 aggggcattg cacttttagga ttctttcggc ctctgtagcc ggagcccgtt gactaagcat 180
 tgttcttggc gcaatcagct ccgctgcgct gagctaaggc ccgccgcac cagtgcggag 240
 tgtagctcct tgttggtcgt tgtcagtacg accaatcttt ccgcggggct gtcgtctggc 300
 ctgccgctaa cttgtaagtc acatctctgg tcttcaatcc atctcatatg tttatggagg 360
 tcgctaggcc tagaactcta gaccgcgccg ctcacagctg gttctccacg ttatgcgctg 420
 tgcatacgat tatccattga gccgccctac attattttgt cgacagtacg aaccatcgtg 480
 ttagttcgag atgctagtta ctataggtcc ttgcagctct tgcggtcaat gtgtccacca 540
 gtctgttgaa aaccgtctcc ggtagagaag attggcagag ccgttcaacg actggtatgt 600
 aatagcgccg aaaatgtccg actccaatga accgaagcca ttggcttcgg cctttgatag 660
 tccgacattt ggagaggaca gctcttttca tgtagaccaa ccggttggtt ccatgtctat 720
 ctctccatgc ggtcgagacg tggttctggc gtcgaaggag ggtcttcaca ttattgacct 780
 ggattcacct tactctccac ctcggtatct tccacaccat actccttggg aagttgcgga 840
 cgttcaatgg tctccatttg ctgctcgaga ctattggggtt gttagcacat ctaatcagaa 900
 ggcgttggtg tggaacttgg cgatgcggag ttaccagaat tccatcgagc atgtcttgca 960
 tgcacacacc cgcccatca cggatataaa cttctcagca catcaccctg ngctttgca 1019

<210> 3668
 <211> 2960
 <212> DNA
 <213> Aspergillus nidulans

<400> 3668

gaggaggagg gggcgctttc ggcacttcgg cgtaggactt tttcggactc gacgagacga 60
gagtttcatt cttacgggga gccatcttct cgtgatgtat gcggtataaa ccagcttcaa 120
agggtgcagg gcggaagtgc gcaacagtgg tgagaaaaaa aatggaaaga taaaaaggaa 180
caagttcgat ttaatggtgg tgggatggta gctggggcgt gaacatgtga tgatgtcacc 240
gacgattaga cctgggcatg acagctctaa ccaagaggga tataccgccc ttaaccttgg 300
aaccttcttt tagaacggtt taccctctc ccaagcatta ttagtattac tggtagtact 360
cggagtatat tctagctggc agtaaagtgc tctcggtta tcgtatacct agaatctgaa 420
gcaaatgtcc tgccctctag tggagactaa tctgcgataa cgtcatttgg catgaacgat 480
ttagtgttga ctgatcaaga tggagactac atttccatgg ttgagagctg tcaagaataa 540
caacagttgt attgaataga atgaggttgt cgggtccgga tctcatccct gtgcagagca 600
gatcaatcgt cgagcaccga ctggaagtct tagaaaatat atatatagaa gcggtagtta 660
aaatcgatag ccaattgatc atcagtgcac aagtacggca ggggtatagg gcctatgcgc 720
cgccccaaac aaataaatca taaacattcc tcttacatct tgataattgg atgacatctc 780
agtcgtcatc tttctccacg ggtttgggaa gatcttcaaa gtcccttgct cgcgaccctt 840
ggtatcccg c atcgtatct ggtactttcc atgatccag agatccttga tcgttagttc 900
tctggtgcgg cccaagctct caatagcact aatacgtca aggggtggctt ccaggtgctc 960
ttcaaataccg ggctgggagc agacttcgcg gaacgcgtgc tgcataaggta ccgaatcggc 1020
ccgaaccatc gcgcgcgagt tgatggtgaa gacattctcg tgatcatagc tctggatgaa 1080
gtcggccctg gtcataatct gtcgtgcctc gtgaagtggc atttccggaa gtatatggcc 1140
tttctcttcg tcgtacgttt tctccatcgc tttttcctta tccaccagcg cctttgccat 1200
caccatagcc gcagactggt tctcattaga gctggagaat tcggcatgca tcaatgcata 1260
cttacaagat acttttgctg gtccatgaca tcgtcatcca tctcctctcc aaggatccag 1320
catttggtga ggaaccaagt cttctcagct tcgcagatat cgttgcatag cttcatgaaa 1380
tccggggcct ttgcaaccct gctgaggtac gataggcggc ctccaacctt gtcgtagact 1440
gctttgagga cttcatcaga taggtgctcg ttgaagtagt ctttgcggtta ttttctcaac 1500
gctgccattg ctttttcttt ggggaggtcc accactggga tggtttccat cctggttgcg 1560

taacgcttta gtctttcata aaccagtag tcatcactgt tgaaaactat tcatgctgca 1620
 gtcagcccgg atctacttca aatttggata ttcacatgta taaaaacctg ttgtaacaag 1680
 gttactggct gcccactgct cggccctttg ctggatcatc tcaagaaggt cttggccatc 1740
 ggggtcgtcc ctgaccatgt gtgtgctgtt gatgatcagt acaagcggag ctttcccatt 1800
 agacctcctt ttcattgcca ctttctccaa cttgttgaat gcacgtcaa tatccaagag 1860
 ggcggtggta tccctcggtc ctttaatgct gaagaggcta ccgatgtaac tgcggagggtg 1920
 cgtcagtaca gatcctcacg tgcaattcaa gaaaatatcc tgcgtactct tcatgaaact 1980
 cgaagtctag cgctttccca agccggatcc ggaaaatctc ctgatcacca tgagcatcga 2040
 aaattgcgca cccgtctcca ttgattttgc gcatggcctc cagaagcata gaagtcttcc 2100
 cagtaccttt ctacccgatg agcaggaagt aatggcccg gatccaccg gagatgatct 2160
 ggtcgatctt gtgttgctcg tctcgaacca accagtgtc ctcatgggta tactgcttcg 2220
 caccacgcc ggcaacctca agcgcagggt cacctgggtc aaaagcgttc tccatctttt 2280
 gaagaatgag atacttgtaa tatttatggt atgagtacc agcaatgcta ttactgggta 2340
 gtcaacagcc aatacaagct caattctagg atggatatac cctaagacag caattgacgc 2400
 gaaagtcgtt gccgctgact ccagcatttt caggatggtc gatttgagat taggctcctg 2460
 gtcattgtct ttgcctttac cgtcgtcttg gttcggctga tcctgaggat caggagctcc 2520
 agggattgcy ctctgtgtga aattctggcc agaaaacatc gcgcacaccc taccgggccg 2580
 cctcgggtggg agccatgggc gcgctcgagt tgaagaaacc aggtatcgct gaatggagcg 2640
 cgaaaacatg ttgaacaggt ttaaaagcga aataaggaat ttttcttaga aaaagagaga 2700
 caggtcgata ctgactgata aatagggaat aaataggagg gaatggcggg gtagaccgac 2760
 gtggttgaac ttgaagctgg gatcctgaca attggtatac aaatattaag cggcgattac 2820
 tggacgcaat tgcagcagtt caggaggttc cagaaatcga ttgtacctga cctgcagagg 2880
 aaaagtccca caagaatgtc ttaatgagt tcaagggtgg gattgaggga agaagaaaga 2940
 aaaagaaaac aaagacagag. 2960

<210> 3669
 <211> 1648
 <212> DNA
 <213> *Aspergillus nidulans*

<400>

3669

aaaacggtat tagcatccgt cgctatacgt gaagccctat agtgtgtacg tacgtcgatt 60
gcgcggattt tcagactccc attatgatgc tagaaacgac ctggcgcgta cactgggggc 120
tgcgatcatca tccatgccgg agattctctg cactgacaga cactgccgct tgacaccgcg 180
acaataatct gcatttcccc tattgctgat ttcaagcaag agctcgctct ccttgagact 240
gctcgattg ggtgcgatca actgatgtag ggctttcata ctggtgaacg aagagcgaaa 300
ccgttgccac actttgcgcg gcttgtaccg tgtaaggaat gatgctgagg gtttgcggtc 360
ccatatgcgg tggacttttag aggattccac cggcgtcaag tgtatctggt tttgatcggt 420
atgactgcta cgtcattgaa gtgttagcaa tcgcctcgtg aagatacctg gcttgtatgt 480
ttgaagtatt gcaagcggac gctcgcgatg cgatgaattg ggttgggcgg caccgcgacg 540
atgaagaaaa ggaaaagggg ttgggcccc taactctaac agcatcccct cttcggcgct 600
tcatgcccgc gcgagaatgt tgcaggcacc gatagaagat atccgcactc accatgattg 660
tatttgtggg aggtgatatt tggccgtggt catcttctcg acgcgcggaa tgctcctcgc 720
cggatgggat ggcggaaggg cgaagaatgt aagattctgg aagatgcgtt cttgataaga 780
gataccgatc tgtaaagat aaacaacaag atagagtaag atgtaggagt ctttgaaatt 840
gcaaaggcaa gtatggcgcg tcaaggagtt agtgaagaag tctggacttt gagggtaaat 900
attgttttat tggccgagtg aggcgggtgg ttgccctgcc aacggaaggc cagggactgc 960
cgactgagcc gattaaagat gcaaagtgag aactaattgg ctgacgaaaa agagcttatt 1020
gatctgtatc agtagaactc tggggtaaac tgtatcatca tccttggttg agacggagaa 1080
ctgccacggc gcctcgccag ggtactagcc gtccgagcta cccagtgagt acaaaatctc 1140
aagtgtcgaa tctaacacga gcaggattga aatgcaaaag atcgctgcga cggttcataa 1200
cctcatttga aatattccag aaatgccaca tccatggtca tatcgcataa tttatcgctg 1260
aacaacgcga tccgcgtcta aaaataagag accagacaaa gagtagaaca ccaaacgcca 1320
accatgcact gaactctaac ccagcttttc ttcatatcgc gtcgctcgaa cgggtcttcg 1380
aattcatcta aacaagagtt tagcctaaga gtttacacgt acaattacca tattgatggc 1440
cggagagacc acaatgcacg cactcctgaa taggaggccg actgaggaga gggactaaca 1500
gattcagtcg atatacgact catggcgcga accctcctgt cgtatcatca aagtcggggg 1560

tg gatctcgt ctctgggccc atactgggtt tttttacccc ttgtggttga gcggggaagc 1620
 ccggcccaat gggctgggtg gtttgtgg 1648

<210> 3670
 <211> 4830
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3670

catcttctct tgtcaatctt ctgatgatat cctgtagacg tgtaacttcg gctaccgcac 60
 gcccatgagc ttcatgctgt tcatccttct cttgctgaac ttctccact atagtctgaa 120
 ggcgtgtggt ttcggtcttct gcacgctcat gagcttcacg atgctcatct ttttcttgtt 180
 gaatctgatg aataacagct tggaggcggt ctatttcggc ctcagcgct ctatgagctt 240
 cgcaatgttc atccttctcc tgttgaattt cttggattac gctctgaagg cgagcaatct 300
 cggcttctgc atgttgttga gcttcattct tggagttacc aagatctctg ctgctatgcg 360
 tctcccgaga ctctaacagc tcacgtctca catcttcaag ctcttcagt gtcaggctcg 420
 gatcttcttt cgactgttgg ccttcacgtt cagcaagttc gagctcttta cgaagggtgg 480
 ccagtgttgc gatcaaatca gcaatcttgg cgtccctttc tgcacccgac ttggagttaa 540
 gctcccgtg ctgctggatc tgggttgtga gaatgctctt ttgctcaagc aatttctcaa 600
 cacgactttc taagccatta atcccaacac tcaggaacgt aagatgcttc gcaagatcgc 660
 tgtcagttgg atcaggagcc gtcggtaggg tttgggcgcg gggttaacccg ggattttcca 720
 tgatgctaag taactgctg cgcactctca ctaactgctg ttcgctgaca ggggtccagac 780
 tctggctggc catatcggct ttgggcagag aaccgagtgc actgattcca ttctcgatgt 840
 atctcagatg agcatcgatc attgctgagg gttcgaaaga gtcgccgctg gtagatggct 900
 ggggaatctg gctgaactcg ctgtccgat ccagctgtag tagcatatct cgcagtctgc 960
 tgctcatoga ctctagcttt ctctccgtct cttgcatgct gttatcatgc gctagattat 1020
 cgggaggtgg tgccctcgtc tcataggttt ctggcccatc cagcgggtcc gacgctttgt 1080
 acaggctccg gtcacgaaa tcgtccaccg tattgctgct ggagaggctc tcgggtgtat 1140
 gcggcatgcc gtttttcgaa ttcttcttca aacctttgtg cgtttaactgc agtaccgccg 1200
 cagtatgttc caacaacctc ttctgtatct cttgtacttt ccgctcggag taccagatgt 1260

ccattgatag ttcttcgcat ttgcggttaa tgtgtacaag ttcctcggtc gtcttatcgg 1320
 tattcggctc gttccgtcct gacccatcaa catcgtgttc ctccctatgg tgcaatcggc 1380
 ttagcgacat agccgcatca cgaagtttca gttccagggc cagtttcctt ttagcggcat 1440
 tcatacgggtt agagagtact cgcagctcct ttttcaatcc ctcgacctcc tcgactgaca 1500
 agatctcgta attgacgctg tcgcccattg cagtttcggt caatagatac atggctactg 1560
 ggtcgtttgc gctgggtggg atagatcggc gaggatgcga cgtcggggtt gcctggagag 1620
 taaacgccta gaattagctg ttttcttagg ttattcatgc agcctgcgtt ctcaccgagt 1680
 tgtacagcga cttctctgca ttagcgggac ctagagcatc ccggtagccg tccaggagaa 1740
 ctttggttgg tggcgggttg ggtacgccgt atgaggcgtc cgagaagtgc ctcgggtcgc 1800
 catatgacga ctgactggac cgaaaatcga agccgttcat cgtgtccaaa ggacgaggag 1860
 tcgtgagatc gttcagaaaa ggagcgttaa agagactcgg tctaacaggc actatacatt 1920
 attctcgaag gcctccggtt tgaccgccag gggaacgggg ttggactcgt ccaacgaaga 1980
 tgcaccggga gaagcagatg tgatatgatt aaggagtga cagggtatat agataggaag 2040
 aaggcaaggc tggctgatgg cacaattgc tggaagaggc gcagtcgcac agttgagctg 2100
 agttgaagga accgagagtc cagaatggcg ccagtcacga gaagatctgc aatgccccaa 2160
 ggcggctggc caagccgttc aggaacggaa taaatagatc aatcggattc tctgcagtcc 2220
 ctcatgata aatcaagagc cgaccgatta tatactgctt actctgcact atcttggctt 2280
 tttgcctatg ctagatgcta tcaggataag cgtcggctat atgcatggct gggggttgg 2340
 gctctgtag gctctccagg cttgagataa agcgcgtgcc cctggcaatg ataacatcga 2400
 aaattgtgga ggcgagccct tacttgggga taaaagtat tcttgacat gtgcagacca 2460
 ttaacctaaa cttgattgat ttcaagcttc ttattccca cagaaggtag agcctaaagt 2520
 cgcggaattt gatgagaagg ggcacacagg aatgccaatg cggagaagcc cacgaactgt 2580
 gacgaacacc tgatcgaacg tgaaacgcag ccaacctcag gccaggatag aaattggtct 2640
 caaagcgaaa cagaccctag tctagctttc ctatcaccga ccgggggtcca aatgtgatat 2700
 attctattgc ggcccgcggc tgggatgta tgtccaatct ttgctggatc aacctcctt 2760
 cgatctgtag tgtcacacc tcacgatggg ctttgatgaa catgagacca cagtcgagct 2820
 tccaccatca ggtcctgctt accggatcta taagcggaga ttttgggggt tagcacagct 2880

tgtcttgctg aacattattg ttagttggga tgtacgttgc cgccecgac cggcctttcg 2940
 cggagggggt gtatagacaa gtgactgact ctgccecggt agtggttaac cttttctgcc 3000
 gtctcaacca ccgcagccga atactttgac gtgtctgaga gcgctattaa ttggctgagt 3060
 actggctaca tgttcgcttt ctgcgtagcg agtccgtgag tgtcctcttg ctgctcttgt 3120
 cagttttcgt agatgcgcta atcacgtgtg ccaatctagt attgtcatag tcaccctcaa 3180
 caaaggcggc cccaaaccgg ccataattgt tacctcgtct cttctcttgg tgggtaattg 3240
 gatccgtttc gcagggggcca aagcgaatgg aggcattttc ggggtgacca tgttcggcca 3300
 gatcctaatac ggtctggccc aaccgttctg cctcagtgt ccaaccagat atagcgacct 3360
 ctggttttca gaccgtggac gaaccagtgc gacggctgta gccacattgg ctaaccact 3420
 tgggtctgcg tgggccaatt gatcaactcg ttctgggcga gcaagccgca tgaggttcca 3480
 gacatggtct tatacatttc gatcatggta agcatatccc gcatatttca catttaaaac 3540
 aaagcagtat gagttgacag agtgagggcg aaaaaggcaa cagtcgcac cattccatca 3600
 tttttcattc cagcaaagcc cccaacacca ccagcgcac cgtctgccgc aagcaaaaaca 3660
 cccctcgtcc cagccatcaa gcagctcatc cggacccccg agttctggct tgtcctgata 3720
 ccctttggca tctacgtcgg tttcttcaat agcgtttcgt ctctcctaaa tcaaactcct 3780
 tctccttaca acttctccga gacagaagcc ggcacgcag gtggcatcct cattatagtc 3840
 ggctcatct cctcagctat actttccct ctcaccgacc gctacaagca ctacctcggc 3900
 acaatccgta tcctgggtcc catcgtcgca gtcggtaca tcgcgctcat atttgcacca 3960
 tccagcccgg caggcattgg tccatcgtac gccataatgg ccatcttagg cgcctcctcc 4020
 tttggcctcc tcccgtagt gctcgagtat cttgtcgaaa ttacgtaccc tttctcacct 4080
 gagattggaa gcacaatttg ctggactgca ggtcagttgc tcggcgcgggt gtttattctc 4140
 gtccaggatg cgctcaaggc gggagatgac gccacccgc cactgaatat gcgcagtgcg 4200
 cttatctttt ctgcggtgat tgctgtgtg gctgtgccat tccgatctg cattgggctt 4260
 tttgggcgtg atgttagaag gcgccggctt gatttcgata gaggcgtgaa catggatgag 4320
 gtgcaggcgc atcaagcaga gagcgtccgt agcgtgctg gggttggagt gactagcgga 4380
 tgtccagcgg tagagtccgg aaaatcgacg ttcggtctca acttaaagat accgtgggga 4440
 aagaactaat aacacttaac ctcaatgttc gatcttcttg catttcccc tcatttcgtc 4500

aagtcctttg aatatggtaa cgacgtatgc tgtacctgcc tagcctgttc gaaatgattg 4560
 tgtcacttct cactcaatt tagtttagcc agtcaaattc agacgccttc acgaatcgtg 4620
 ctgcgttgca taaatttcgt tggtttagcg gtatggggaa tgtatgccgg cgtcactggg 4680
 cggactccta aatgagggcc gttcctaaag tctgtatcaa gacaaaata tctgaaattt 4740
 atgcagctca tttcaagctg tctcaagcta aggacaagta cccgaagacg taaagtctag 4800
 agaaaagtag cagtcactta aacaaaaggt 4830

<210> 3671
 <211> 3871
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3671

gctcgatagg atccaagtac tatgagtctt ttctgctagc tctgtttact cgatgcgcaa 60
 aggacttgac catgaccgac cgtctgggga atgggacaca atatacagac aatgaagccg 120
 tcatcgcgag cgaattacgg aatccagata ccaacgtgc tttctacgtg accaccact 180
 tggatactac agtcggcacg gatgagtcgt tcaagttgca cgtcaacaca tccaaaggcg 240
 ctctcacaat cccaaggcac ggaggtacta tccggctcaa cggtcatcac tccaaaatca 300
 tcgtgaccga tttcaacttt ggatccgaga cacttctgta ttctacagca gaagttttga 360
 cctacgcggt cttcgaccgt aagccaactc ttgtcctctg ggtgccgacg ggtgaatctg 420
 gcgaatttgc catcaagggc gcgaaatcgg gatcggtcgc gaaatgctca ggatgttcaa 480
 atataaagtt ccaccgcgat agcggatcat tgacagttgc gtttaccag ggagaaggga 540
 taagtgtcct gcagctagat aatggtgtac gagtggtttt gcttgacaga cagaaggcat 600
 acacattttg ggctcctgca ttgacagaca acccgcttgt tcttgagggg gaaagtggta 660
 ggtttcttgg attctatttc atagtctgta ctaaccggca aacagttctc gttagcggcc 720
 cctacctcgt ccgaacggcc agactagcaa ggtcgacgtt aacattacga ggcgactcca 780
 agggcgaaac attggagatc tttgcacca ggaagatcaa aaaggttaca tggaacggga 840
 aggctgtaga ggcgacaaga acctcatatg gcagcctcaa agctattctg gccaaagccgc 900
 cttctgtcga actgcctact ctcaacgggt ggaaatacag cgacagtctt cctgagcgat 960
 tcccaaccta cgatgactcg ggcgctgcat gggttggtta gtgtttacat cagtaatgga 1020

gtagattgga aacattaatt agagatagat gcgaatcata tgacaacccc gaaccctaac 1080
 aaaccagcta cactgcccgt cctctatgcc gacgaatatg gtatgtattc tctagtcacc 1140
 ccaaataaca agcagctaac aaaccgcagg attccacaac ggcggtgcggc tatggcgcg 1200
 ctacttcaac agtagcgctt caggcgttta cctcaacatc caaggcgggc cgcattgta 1260
 cgttgttatt ccagcctag cctgacaaa acaagaaact aacgattact cttcctcaaa 1320
 gcggctggtc cgctggcta aacggccact tccttggctc tcacctaggc tcggcctcta 1380
 ttcagcaagc aaatggcacc ctcgacttcc cagcaaacac tttgaacaca gagggcacgc 1440
 ccaacgtcct cctcgtcgtc cagcagaca caggccacga ccaagacaac aggcgttctt 1500
 aaccacgag gcattctcga agcgcggcta ctctctgaag cttcagacaa caacgacgat 1560
 gactcaccag gattcacgca ctggcgcggt gccggcaccg caggggggga atcagacctc 1620
 gaccccgctc gcggcgctta caatgaagac ggctgtacg ccgaacgcgt gggttggcat 1680
 cttccgggat tcgacgacag caagtgggcc acagttaacg ggacctcgct ctccttact 1740
 ggggcaacag tccggttctt ccgcaccgtc attccaccac tctctatccc tgaaaacact 1800
 gacgtttcta tctccttcgt cttctcgact cccaacgtga acaatacatc agcaggcaat 1860
 acatccgctt tccgcgcca gctctttgtt aacgggtatc agtacggccg gtataacccc 1920
 tacgttggga atcaggttgt gtacctgtt cctcctggga tcctggacta taacggggag 1980
 aacacgattg gtgttctgtt ttgggcccag acagaggccg gcgcgagggt gaatcttgac 2040
 tggagggtta attatgtgct tgggagttcg cttgatgctg ggcggtgga tgtgagtggg 2100
 ctaaggccgg gatggaatga agagaggga aggtttgcat ataaccaaag ttacttttga 2160
 ggttttcgga aaatgaaata cggatgttta aaagaaggag agctgtctcg tttggtgggt 2220
 attagactcc aaaacagcta tccttcgttg caattgccta cgtctacata ttcggatgtc 2280
 ttcaactatg aaccggcga atgttaagta tcccctagac accaccaaac atcaagtgcc 2340
 agctcttcaa tgatctcggc cgttattaac cctgaggatg ctacgggttt tagaaccgga 2400
 gtagtagaga gcagcatcgt ggaaccctag tttctttctg atgttccaac tcagtcctat 2460
 caataacaag cttccaataa cagagtcgaa aatgggaaac tggaaaagag ctagagtttg 2520
 atctgtgggg ttattatttg ggaaggtag ttggatgagt tttcgtagat aaaagaaaag 2580
 gccgaaaccg ctttcaggga acgtggcgctc gagtatcaaa taacatggat catctaacct 2640

catatttcac aaagaccatc gcaaagctaa tgcttcttcc accctcaagg cataaatgag 2700
tcttcccaa tgtttcttga acctctgcag ctaacatttc tcggtaccat ggtaaattcg 2760
gtctaacccc gatagattcc cctccgagcc tacatgacat caagggacgg tcttaagagg 2820
cttgctgcgg gcgaaatggt cccgactgct gagacttccc aaactgatct gattacactt 2880
atgatataat agctacctaa atcacaagcc agaaggaagc tacttgaaac atgcacgggc 2940
gcaagaatag atatgaattt gtttgcagtc catccaacca gatacagtac cagcaacagc 3000
tatgagacaa atgagagcgt gtgcgcgaga gaaacgacag aacgtggata cagttcaaat 3060
gccgaataac agatagagca caagtgaag acaaaaagca agccctgaat atgctgcaat 3120
tagaccggtc aataacagat gttcaaactg cctgagatat gccagtgcac cgatttccag 3180
aacacgaaca cacgatgaaa agtggccagc gagtttgaca gcgacaagag attgtagaca 3240
ctatgaaatg atgatcaata atgggactgc ccagtccacg cttgccaag acaaaattaa 3300
aaagactgaa tggaatcgag cttgtgtcga aaatgaggaa agggaaacaa aaatccatga 3360
acgtggctgg atctgggaca ggatagaaaa aagaaaaata gatcaaagcc caaaatcctg 3420
agcgcaaggt agatcaatat cgtgcgacct gaagtagctg agggtagagc gtctccaaca 3480
tccgaccgct ccgttttcta tttctgtccg ctgctggatc cgcataaggt cggagtgcac 3540
gcacaaagaa acacccttcc catcacaaga agtaagagag atcgccgtca ccgtaacacc 3600
ataagactgt gccagggacc gaagcagtc aattgtgatc cgcaggttgg aaaggccccga 3660
cgatgccgga taaccgagcc ggtcaggaca ccaaactggg accgaccgcg caacccaaac 3720
gagttgctct agagaaataa accaggtcta caagacgcca aatgtggata ccacaccctt 3780
tcatagatcc gtcgccgttc gagattaaat gacacacgag atacgaagag aacgataacg 3840
ccgattgcaa tgccgcattc aagagaagtg a 3871

<210> 3672
<211> 1979
<212> DNA
<213> Aspergillus nidulans
<400> 3672

tctcgctctc atcaacattt gccactgtcg cgctgtccgt cctctcgttg acgagcacat 60
cagccgcctc cctcaacctc ccgaagactg cctaccctt gcccgcgcg acagcggacc 120

cctcaaaccc agcattaaca tggcacgtct cgcagttcga cctgggctgc tctcccggcg 180
gctgctcta cagctttaac atcctgggcc acgcctcgga aaatacacc ggcttcaaca 240
cgtcctgcaa tgggtacaagc acgcaggacg actacgcgcc ctgcaaggac gagggcatcc 300
tcgcgcagat cgagccgggt acctatccca attggactgt ctctgtacag caccagtggc 360
gcgaggcaat gttcgaggag tattatgcgt ttggtgagaa gaacgtcagc gttgcgggca 420
actcgacaag gacctttacg atccccgtga cgagtgtcta tggggttgct taaatgccat 480
ccgacttttt ttttcagctg cgggctgatt ggaggaagac gagacttggc ctgagctgcg 540
aggtcagctc tttgggaatt taggaactgg aactggtaat ggaatcggtc tacggggtag 600
cgcagaggtg gtatcaagta tgttttggtg ctagcatctg cgatgctact gttatagttt 660
aatgtaatgt attgaatcgt ctaaggtagt tctactcgga tgagccacat cagctgtctc 720
tcctatactc tactgcagac aatgcatcaa tataatttat ttgcatggga cgagcctata 780
tgtaccccggt atattgtaac tatacaatgc gcccacaatg acatcagtggt cttggcgccc 840
gttgaccatc gtgaaggacg agccgaacgc gtctttagag gcaagcacgt acagatagtg 900
atcctttgta cagactcgcc tcgccctaata cccctaatacc tacttccagt acgtcattcc 960
gtggtaggat tggcgctata cagttccaac aattcatggt atgcaacccc tccattcatc 1020
gatacacgcg agcgcccaga ctgacttgca cacttggctt tcgaccaaca caggcctcaa 1080
ttttgcgaca gcttgtagct ggaccgcgac ttcaacatcc agagacaggt ctagatcttt 1140
gctatgtcgc cgataacagt gagccaagcc ccatctctac cctatccaac gctgctcgat 1200
acctccctgg ccggtttatc ctgtaagcta acctatttcc tactcctgca gtaattgcaa 1260
cctctgggcc ctcgacaaac taccctaaac ttgcatacag gacaccgcta aagcaacttg 1320
tcaatttcct cgacagtaaa catggcgccg actggtgcat ctgggagttc cgtgccgagg 1380
gcactggata ccctgactcg gaggtctacg gacgaatcca ccatttcccg ttcccggatc 1440
accacccgcc gccatttgcg ctgattccga aggtcatggc tagcatgcga aactggttgc 1500
agcggttgga tgggtcgga gcgacggac aggagaatca gaggaagggg caacgggttg 1560
cagtcgtgca ttgcaaagct ggtaaagggc gcacgggaca atggcgtgct cgtacctgat 1620
tagccaggag ggggtgaaga tggaggatgc gttgcaacgg ttcacggagc gccggatgag 1680
agtaggattc gggctcggcg tcagtatacc cagtcagctc agatgggtac ggtatgtgaa 1740

tcggtggacg aacgaactgg ggaaaaggta cgttgagcgg ccggttgaga ttcttgagat 1800
 tcatgttttg ggtctacggg atggagtcaa ggtcgtggtg gagggttcg tggaggaagg 1860
 acagaagatt aagcagtttc acctgtttcg aaaggatgaa cggacgggtca tgtcagatag 1920
 tacattgcag tctcagtcgt ccaacggtcg tccacacaac tagcgaagac gacgaagac 1979

<210> 3673
 <211> 2337
 <212> DNA
 <213> Aspergillus nidulans

<400> 3673

ctctgtctgc tctgtgattt gctgtcagat cacttacgaa tgctgtggtc tagtggacca 60
 agctgaagtg tcgatgcggg gagaatgggc tggaattgcg ataaacctgc ggaccagcat 120
 gaccgagtct gacgccattc gcgatggagt ggacaagata ctggggacag cggcttcaag 180
 gctcgtcgcg tgaagattca gcgtgagaat gaggagctcg actgccgggc tcaattggag 240
 cgtctgatct cagaagcttt atgactaatg cacgatatag agtcggatgc tgagaaattc 300
 cacaaatggc aaggtagtaa tctaggtttg agaaccggcg atatcgtcag cccacgctgt 360
 cagatctcgt aaaatatctc cagtttgggc tagaccaggc cgaacaggaa tatgaactct 420
 tgtactactc tcggctctga ggggtctctt ttgtagtttg tagagactca tcggtggggt 480
 tgtgagtcga cgccctgtgc ccccgcgccc ccatgtcgaa tatagtgcgt gatgcccttt 540
 tcgtaccgtc tatttccaaa ctcaagggtc gttactcaa attgaaacca tccgcgccgc 600
 cactctccga attgtttcgc tctattggc gtgagcttgg aatagatggc gtgagtaaag 660
 aacgctgctg acgagcccag ccccatgtt cacatgtgga aaagattcgg attaacagac 720
 taatggcagc cccaccgac tacagtgtag tcatatcatc cgcgtacaca ccacgactgg 780
 agtcaagtgc gcgttcctgt attgcctagc attggtttgc aatggcaccg taaatggcag 840
 agcgtcgctt ttgattgatg tgccatctcc cggcaacagc tgatccggct gatatctaac 900
 agagatacgc tgttgttcat ggtgtatatc agttggagat aaataccttt tcgtcccagc 960
 cctcgtgcag tactgaagtg gaccgcatcg acagagtcgt aaggctatgt tcaccgtgga 1020
 tgtatggacg gcggcatctc atgctgacca ttccataaag cttgcgagct atgactccaa 1080
 gatgcacggt gccatagccc agtggaggct tcgaatgaag tagagtctac tagataccca 1140

aagccggttc agccgggtca gcctgggtcca tggcatcttg ggaaaaccaa cgatatgttg 1200
ttgaagatat tgacaggcag aagggttaat tctaaagagg aaggatcttc taaggcccca 1260
atgtatgtag gcagttgccc gacaacagta tgggttagga atcttgtcgg ctgaagactg 1320
gaatatggga accacctgaa ctgacagcct tttggtgaca tcaaaccact cggtttcctg 1380
tgattactga tgagtccact atagtcaacg ctagatagag gccgggagta accaatccat 1440
agcggccact gagttgatag gcttttggtc tgatgaggat aacgtgacct tggttcacia 1500
ctgccacccc gccgtccaat tgattatagg ccgtatttat tttttgaacc aacgatgcaa 1560
tcacgaaatg atctcggagg ggacacgggc ccagtgggcc aacggtcggg tgtgtatcaa 1620
gcaaaggggg tggagcactc gcgacgtggc tgcgatcgct gctgctgaat cctcagttta 1680
gggcacaaga tattgaacta tcgaccgggg ccttaggttt gccgatgtga ttcgagcaga 1740
accgccaagg tttcacctg cttggctgtt ttatgttgat tgcacagca ggaccggga 1800
gcctaagatc gtgacctgga gataaagcat cgcgccgttc cacctggatc cggagagacg 1860
ctacgtttaa attatatcga agacaacatg cgatgaactg gatcgaaacc ggcatctgg 1920
gttcgaatag agataatctg atccatccct ttcttggttc aaggcgagcc agcgacacaa 1980
tgcccgctg gcttcttgcg gtcgaccgca tctttccgtt gccgatgcg ttgcatctag 2040
gaaacatctt ctgtgacgct gcttatttca ggcaagaagg cgcctacttt gggttggtga 2100
ccttttgatt gtgttcttcc tgccctgtat cctttcatcc ctggtggcga cctattgccc 2160
ccattattga tccagtccac gaccgttttc tttttccacc tcccaccac tcccgttcaa 2220
acctggtttc cgcccgtcc ttacgttggt gtgatctggt ctatatgtta tcacctcct 2280
tgttattacc taccctgctc tttctaggcc tcccctcatt tatttatttc tgggggtt 2337

<210> 3674
<211> 1954
<212> DNA
<213> *Aspergillus nidulans*

<400> 3674

gtcgcccaag ccgagtatta ggggtatata tccagatgcc gtttgcatgt gagatacgta 60
cactccagat cggcatgcat tgcacagcg gaatatggtc gatcagtgac tgtactccga 120
gtatatcgac tatatatcga ctatatccat ttttccttat ttttccttcg tttttcttga 180

ttattggagt ttttccttct ttttttatct tagccgttga caccagttac cggatctggc 240
 agcccggagt ttgacggcga cgatcgattc gtcgcactag atgactagtg gcttcggagc 300
 ctgcagagac caagagacta acaagccagc cgagccgtca gtataccagg aaaggagaga 360
 tatgcgatgg cggccttccc ccaccgggat aaagtacgtg cgttgagagg gacgatccac 420
 ttagggccca aggcagccgg tgcagaagtg gcagaaagta ctacagacac tggccagaga 480
 tacacaatct cgtaaagaga aaaaatgtcg ctcttctctg gtttcaatca ctattgtcaa 540
 gaagaagctt ttttcttctt tgcagtggcg ttgttagctt gctaccgaga ggggtgggttt 600
 gccagcatat ttgcggatga gccctaata ggcgatgcga ctcgtaacc acaccctgcg 660
 ttctttgagg attctgcagc cagcaaaacc tgcagtcgac cgactcattg actcgcgctc 720
 cccatcgggt ctggccgcgg atgtcaaatt ggcaatttat gtgaaacgac ggcccactct 780
 ggtggctggc cactgcccgt ctgggcccgt ctgggcccgc tggcagcttt ccgcgcgtgc 840
 cagcgggccc cggcgaacaa tggcgatcag tagttagaca tcgatggggg actgttcgct 900
 tacaattcgc tctcttcta gccacgggc ctcacaagg cctgcagaag cctcttgtga 960
 gtttggcctc tgtgcagagc caatttgcgg cctcctgatt ggcaacgtat cgacatacgg 1020
 cggcttcgtg ggcccggcga tgccagtttt gggcaagaga acggggccaa caggaagggg 1080
 gttgaccaac tcgagacggc gcatatcaaa tcggtgtttc agcggtcgaa gcgtggttga 1140
 tacatctttt ctctccatgg ttcttccctt gcagggagtg tgaggctgac cagtgcacta 1200
 ctgagaccac tgccaccaga tcgaggcacc atgggactcg gggaaactggc tctctcgag 1260
 ctgacgctgg ccaatgtcgt gctgggcggc attgcttata tcgtcctaaa gttcatctat 1320
 cagattgttt attaccggtt ctccacccg ctctcggctt ttccaggctc cttctgggga 1380
 tccgtcaccg ggctctggat cgcattggat aacctgaagg agacggaatt gccaaccatc 1440
 tatggcttga cgaagaaata cggtaggtgg cgaaactctt caaatggctg gttgttcta 1500
 catttgtgtc tgccgctaaa ccggtcttgc tgcattgata ggacctgtcg ttcgagtgc 1560
 acctacactg ctcttgtca gcgatccac caaactccct gagatctacc atcgcaatgc 1620
 cgacaagact ggtcactaca taaccggctc cttcggcgag accgagtcgc tcttcaatat 1680
 gaggtcgcac aagacccatg ccgcgttccg caagcacgcc gctggaccgg taagatcgat 1740
 gcaacaaggg tcccacagga aagtaaagtc atgctgagat taagcagtac agtttctcga 1800

gcgtgaagcg gatggagccg ctcatcgatg cccgcattcg tgactgggtcc aacaaactca 1860
 atgagaagta cgtccagacg gatgaggcgt tgcacttctc atggtgggct gtgcaaggat 1920
 atctacattg agataggggt tggagcctca cccc 1954

<210> 3675
 <211> 1610
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3675

caggaactgt cattcctgtg gctcctcact gattgacggg ccatcatttt tctcttcggt 60
 ctggggattt catacccact atccctatat cgagacatcg ccaaggtttg aaccactga 120
 tagttctatg tctaccgctg actcttggtt agttagcgaa agcatcaact ttggccttgg 180
 ttagcatggc agtcattggt attgccgtgg tctctcaggg ctttcgagtt ccacaagact 240
 cgcgcggtga cgtgaaaaac ctactcttgt tgaataccgg cttttttcaa gccgtggggg 300
 ttatttcctt tggatatgtc agttgccacc cctgcatatt tcaaacctg gtactaatta 360
 tgcttagcat ttgtttgccg tacgtggtag tccccgata gcactcagac aactgacttt 420
 tcaacaagac cacaatagcc tcttgatcta tggttcactg aaaaagccaa cgttggatcg 480
 gtttgccaag gtcactcact actcgaccgg gatatcgctc ttaatgtgcc tactcatggg 540
 tgtctctggc ttcctattct tggggtccga gacacaaggc aacgtgctta ataatttccc 600
 gtccgataat attctgataa atatcgcgcg actgtaagag caagatctac ctaaaaataa 660
 gcccaatatt agtgagctga cactcgcata gttgcttttg cctcaacatg ctactacgt 720
 taccgcttga agccttcgtg tgcgtgagg tcatgacgac ttactatttc cctgacgagc 780
 ctttcaacat gaatcggcac ttaatcttca catctgccct ggtactaaca tccgtagcaa 840
 tggcactgct aacgtgcgac ctgggcgcg tgttcgaact gattggggcg acaagcgcag 900
 cctcgttggc ctatatcttt cctccgctgt gctatatcaa gctgagtaat ggctcgcaaa 960
 aagcgaat ccccgctac gcgtgcatcg tcttcggagt caccgtcatg ggcgtcagcc 1020
 ttctacaggc agttgggaag atgataaaga gtaggtgtcc ctctatcca taaaataagt 1080
 gcataactca gaatgtttat agatgaaggc ggcacggcga cttgcagcac ttaatcagag 1140
 ggtagcgttt tacttttata catatctaca ataggctatg gctaaccggt cgtgaccgaa 1200

tgtacatata gacaaatgtc tcgagctaac accaacccca aaacaatttt ttgtcaagtt 1260
 cccagctctt gatgaattga caatagccgt taaaagaagc cagaaaaatt acaccagaag 1320
 aacaacgctt cgcagataaa actcttgcac tgagcaagga gcaaacaatag actagcgaga 1380
 acatttatgt ctcttgcac gtctgtgcg cgggcgtttc atctaagaac ctagttagga 1440
 tctctctca acccgccac ctcttgcac tcaaaattgc agattttttg cagcagtcct 1500
 ttctaattgc aaatactgca tcctttctac acgatttcga tctactctt tctattttca 1560
 tgcttcagag agtgaggtaa gtgtacaca tgctctgtga aaagagagtg 1610

<210> 3676
 <211> 3138
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3676

ccatgctctt tgaccagaac caccgcgaaa gccatcggac gagatgcccc ctatagcaag 60
 tccgtcgtct tttcaagtgg ccaatatccc ctagaacat caccggtcga aacggcacag 120
 gccagactga ctctactggc aagcgaccag gagcagcgat gccagcagaa tgagactcca 180
 gaagagctgg cagcgtcatc gaattcgacc cttttgctcg gccactcgaa cgagcctgcg 240
 cggcgatctc ctacgcgggg agattcccaa cgaattatac caaggctcgc gcatttcgta 300
 ccgagtcctc cattcgtagt gcttgtgcca tcgatataaa cagatggaat acaggcaagg 360
 ctgctcgagg tgcagcgcat gcggaccatg gtgcggcatt atatggtcaa gggtaacccc 420
 ccgggtccct cgtttcaatg aagcacagct gtatgggaat atcgaatcac tacttgcggg 480
 gaagagttga tctcaggagc agctccagtt atcagcaatg gttgacctga ttttggcagt 540
 gatccaggta atggctggcg aaacggtgga aggcaacaag tcaactacag ctggctgggc 600
 tgagttccag caccagaaac acgttttgag tgcttggcct gggatgctaa atatcaggag 660
 cattcagtcg ctagtgtcga agacaatgta cctgatctac acgagtagaa acgagctagc 720
 ttatgatgca gtggcctcca tggcgaggct ctgttttcag ctagggttat acaacgaaag 780
 gctggagttc atgttcccca tttgaggacc atctgcggcg cattgcttgg acaacattct 840
 aactggagct acatgtctca gaaacatgca attgccttac ctgatccgac gttgtgactt 900
 ggatgttgcc ttggatgttg ctctgccct gcataatgac gacagcaaac tacggaccga 960

cctagaggca ctgccatcag aggatccccg tgctcctatc caccatactt acttctgcta 1020
caaccatgcg ttactattca cagagctttg ggactgcttg ttgggtcacg gcgccccaaa 1080
acctccggac gacgcaatga taaacacctt cgacgaacgt gtggaatcat tacgctggca 1140
agttccctca tttttgcagt ggaatccagc tacggctcta tcttgcacac tcagattaat 1200
gccctccaac atttaggtat tgcagcaa atcagggcag accctttgca tcctgacaca 1260
tggtatggcc ctcttggtga caaagcccag ttcaaccata tatgtagcta tgtaaagaa 1320
gccagggctt tgctgggtct actggttagga ggtgtacat gtggcccga gatcccgatg 1380
ggaggggtcc agttgagtaa cattggtcgc aaattggtcg agtacacgtt gagacactat 1440
acagagtcta aaacaggttt tattaagtga gtcgccatt gtattagtcg agctctgact 1500
tagacttagg gcacgggtgc tgggggcaag aactgttcg atgtccacac aatgctacac 1560
agacatgaat cttataggct cagttaatca gacttcatt agaagcatcc tattcaccta 1620
ttactgacct atgtatctct ctcacatagc aaacaagaca tcagagtgcg atgtctgcct 1680
gtcacgtggg tgccctctgg ttgcgagcat gagacgtaga agggtttaca gccacaccag 1740
tgcgcaaacc catcttcaact ttcagcagaa aatagaaga aatacaggat tttagctttt 1800
gaaagacttt aggtctacaa tgaaaatgct acctcgta gttaattcta gctataacct 1860
tcatattggc gtgggatgaa gaatcggttg aaggtatctg atcggcttat ggcattgact 1920
tctattaaag cttcctgtga cctatctgac tgaattgtca tagctctccc taatctgttt 1980
caagagctac tgtgaatgcc tttccttttc gaaacacctc tcacatatgc agtatctcct 2040
aaaagaactg cgccaccatt cttcccttct ccaccttgcc agctttcata agatcgatca 2100
tctcattgat atcctccaag cggaattttc tgggattgac ttttagagag gatgtttttc 2160
ctcagcga aa actcgaggca ctcgctagct gcagtccggc cagggactag ggcgccgatc 2220
aacctgtggc tgatcagtat atgatgtagc gttacggaag actgacatac tgcagcgccc 2280
gagagataag ctggctaatt gcgatcgga tatctttgct gggaaacca accgccacaa 2340
ttcgtccctc tgcccgga gaactcaagg tagttgcata tgccgggaac tgctccagaa 2400
gtcacaacga ctgtatcaac gagccgtcca tcaatgaggg cagcaagccg actcgcaacc 2460
tggtcacttg ggatgttcca ttatccttga cagttttcag ctgctagcct tgtatgtcta 2520
gtgcaatcac ccgactccc attgcgcggg cgactgtca ggcgacctgt ccaagaccac 2580

cggttacaac agtggcgaca acgtctgtaa cctgtaatct cgctcgctag gatgcattcc 2640
 aaacagtaag gccagcacat aaatgaggtg catgtgatgc aggggacgcg atgacatact 2700
 ttgggatgac cactgcactg gccgccatcg acaagcgtaa tattcgcaaa gcacccctcg 2760
 gcgcagtaag gcctttttca ccattcttgt aggacataag atctgacgtt gcgctcctaa 2820
 caatgtatac actgcaggca catgccgtgc cacagtgggtg cgccaacttg gtcacctact 2880
 tgaagcccat ttgacataat cgggtccaag agcttcgcct acagagacag cttagtggcc 2940
 gacaataaac gggacctgaa tgggtcctag acctccactt gtgatgggtga tgtctgaatg 3000
 acacagcgac ccggcctgga cgcgggccag cacttcgcgg ccttgtgaaa ccggcacagg 3060
 cacctgctcg atgacgatcg gttgtaaagt caattcaggt tagccagagg ctgtaggata 3120
 acatgaatgc ccgcaggt 3138

<210> 3677
 <211> 1604
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3677
 catcacctcc cttctttcgt caacgctttt tgtcctcgat ctatacgacg tgcactcagt 60
 cattacaacg cagattctct cgcaactcta ctactgggtg ggagcggagc tcttcaaccg 120
 gattctctct acaaaacgat atctagcccg aactaaggcg atgcaaattc gcatgaatgt 180
 gtcgacattg gaggactggg ctctgtaccaa caaccgacag ccggaacact atgagaacgg 240
 atcgaccacg tgtacggggc acagcaccat ggattccgcg cgtaaacatc tggcaccggg 300
 gatccagctc ctgcaatggc tccagtgtt ctcactacta ggcgaggact tcgagtctct 360
 cgtaacaca ctctccagc tacaagacct gacgccagcc cagatgcttc atgcggtcaa 420
 gcactaccgg cctgaagtag gagaaaaggg cttccgaag tccgccatga aattcttggg 480
 agagctccaa cgcgaccccg aactgatatt tagggagcag ttgaggcttg tccaaataaa 540
 agcagattcc ctggccccaa cgtcagcgcc aaccgaggaa gggcgcccg aaactccacg 600
 ccaggaccac gcccttcaa cgtccaattc gcccaattct agcgttgct ctccacgacc 660
 ggggccaagc tcacgggtag atgaccgcaa cggcgctacc accgtgttct tagatcctgc 720
 attgactctt ccgttttcgc tgccgactag cacggacatg ctcactcagc acggggccgg 780

ttggggcgga aaccacaaag agcgggcgcg ccagtacatt ccaacggtac tgcctgaggt 840
 actggagcgc tttgaccgtg acgtttgagc tgggtgggaag aagcatagta tgctagtata 900
 tattagcatc tacattgtgc cttgttacgc cgtcatgact gaagaagatg catatgatcc 960
 ttagttatct cattcgggaa gctagcgacg aatggacgat tcagagtaaa tccacgacgg 1020
 cgaaagcagg accccaagct ggactgtttg atgtccaggc ttcaaaattc tggtataaat 1080
 acgcgacgcc cagaaaatcc ctgaaataat tacgcctgat aacgataatc attaggctta 1140
 ctggaaccgg acggacagac gagcagcgaa gccttgtcat tctaactgaa acaagcactg 1200
 gggaggggcg gaacattgaa gatcaatttt aatatgatca tggatgatggc ttggccgctt 1260
 gatacaccta ggacctgggt aatttgcgag tctcaagttt gtcacttgtg ccctgattgt 1320
 cgtcaataat aaaaccataa catcggagcg ggccgtcttg acatattcgg ccttttcgga 1380
 gatttctcgt tgctttttcc agagtctaga ttcagaaaaa aggtacacgt ttcgtttact 1440
 tcgtcgtcat cactaggccc cgcccacgca atatgggctt tagcctgccg cttccagctt 1500
 gttacgtctt ttgattatta ttgctcttgc ccaggacata ccagaatcca atcaggtgtc 1560
 ttctgtgcac ctttcttgcc tcgttgtgct caggcacagt ggca 1604

<210> 3678
 <211> 5654
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3678

gccttatcgt gcctcttgat cctgtccgca gcaactgtag cagccaagac tctcttgccg 60
 gtcacgatcc ctcaccttct ccgcaagcga gggattcgtc ggctacttcg cttgttccct 120
 ctagctcgga gcagcttcgg acaagcacat cctccccctc ccctgatcaa cggcgtctaa 180
 agaagcgccg acacgtgatc aaagaactcg ttgacaccga atacacattt gggagagata 240
 tgaaagtgtg ggacgacatt tataaaggga cttcaagttc ctgcctggat ctgtccgccg 300
 aggatataaa aatcctcttt gccaatcttg accaaattgt gcatttctca atgactttcc 360
 aggatgcact gaaggaggcg gccaaaagcg tgtacgttat gccc aaatcg cagcggtgga 420
 gcagtaagcg tagtgggcca aattcccacg tttctaagaa tgattcagaa tcaattgaag 480
 gagcaggccc ttcggatcta gaaaaggaca gagcaacgtc cataggtcag ggctttctga 540

accatatttc ccaaattggag aaggtctata ccgagtatct gaagaatcac gatgccgcta 600
 ataagaaact ccaaacgctt cagcgaagtg caaacgtgac aatctggttg aacgagtgca 660
 gggagtgggc gtcggatctc acgagcgctt gggacttgga ttcgctgcta gtgaagcccg 720
 tgcaacggat tctgaagtat cctcttttga tttccgaact gcttgactcg acaccgccgg 780
 accatccaga ccacgcattc ctctgtaaag ctttggaaga ggttactaac atttctgttc 840
 gcatcaacga gttgaagaga cgggcagatg tgggtgggca agctgttggc cgaaagagga 900
 aagaatcaga cgtgagaatg ggattttcta aagcctttcg ccgtcgaacg gagaaatnga 960
 gacagcaagt tggtttatcc gacatggttg ctgacangga tacgatgctc tcgcccagag 1020
 atttgcgat aacttctttc aactgcaagt ggtcatgcgc gacgctgaaa tgtatactcg 1080
 tgagaccag gcttcttttg atcgattctc cgagttcgtc actgctatcg aagcgttcat 1140
 cgatgtttcg cataccagct atcctgagct cgagggcaag tggcgcgttt ttaaaatattc 1200
 tgttcaagat atcatggcag cgaccttgcc tgagcatgtg agttctgccc tcttttcttc 1260
 tctttcgcga atcattcttg ctaacgcaga tttccattta gctcgatgtt gttaggaaga 1320
 gtgtaatcga cccaatggtc actttgctca aactccatga aggcccacag agggtcatga 1380
 aaaagcgtga caagcgtctc atggactatg cccgcttcaa aagtattaaa gcccagaggag 1440
 ataagcctga caagaagact gccgaacaag cggatcagtt cgttgcgctc aacgaaacgc 1500
 tcaaagatga gctcccgaag ctctactcct tgacggccag attaatggag gcttgtttga 1560
 agaacttcgt ccaaattcaa acgacgtggg acattgtcct gcagaaaaag attgggcctt 1620
 tgattgatac gtttccggaa gaggtccaga agatcgctga tgactggacc acgcgtttcg 1680
 acttttcgga agcacgggca ctctactag gtatctgcaa tggctcttta cttgccgata 1740
 cagtcaatct ggtcaacttc aatactcctt ccacagcacc ggggggtagc tctccgcgtc 1800
 gtccatcgac cgtacacagt actagtactc gtgctatgga cgagtcccct aaagtatctc 1860
 atgacttcaa tgctagcaat cagtccttcc agagccctat tatggatgct caatctcagg 1920
 tgtcttttgg ccgccatcgt gctgactcgg cattctctac tcggattgct tccgagacct 1980
 cagacctttt aatcacacaa gtcttgacg agggcaacaa cgcattcaaca tcgtctgttc 2040
 catccccaca gtcgcaaaca gaatctttcc ccaggttcc cagtattagc ctcgacactc 2100
 catttctggc ggacgtcata ccactcgcaa ataacgacaa cgcagcagat gagaaccgtc 2160

ctagtctgct tgcgcgcga tattcgggct tcttctgct agcgatgcct atgtccgaca 2220
 gttcacagga aatcgccgaa tcagaggcca atgtggtaa agagcctact gttttattcc 2280
 ttgccgctag catttacgaa tttaatatag accgagcccg acgtgaggct ggttaccctt 2340
 atttgacgta tgttgccgggt gagatcttcg atgtcatcgc tgaaaagggt gagctctggc 2400
 tagctcgaac ccaagacgac gcaacgcac aagttggctg gatatggaac aagcatttcg 2460
 ccaaactttc aacctgagat ttactgtcc tttcaaaagc ccttgcgaga ctttcggggt 2520
 cgagactgaa aaactgaaat cggaggcgc cattgcgctc atgcttggtg ctaacataac 2580
 ctccaagagt caggctccctt ggctggatct attatgacat ctgatgaacg tgtttcttta 2640
 ttctcatctt cctattcttc aggaacagtc tacattcgat aaggactgct taccctcgty 2700
 ctttctcta tcaaactgtg gagttacttg gatcagatgc tggcagaatg tccgctctgt 2760
 ttctctttgt gtgtcgtttc ctccgacata aatctatttg gcgagcgagt tgaattattt 2820
 gctttgtaag agccgggtgtt tgcttttcgg ccccat taaagaaaaa ctgc 2880
 gcaagaatgg ccgcgaaatg tacatct ag 2940
 ctg cag tctgctc c tatta ttc tagatgtgga atgcgcgagt 3000
 tgac gtcctttggg tgccacactt tccccagagt 3060
 ggcaccagcc tgatcgccgt ccgcttgc 3120
 tcctttcagc tattctctac tgc 3180
 tagatgaac tattctcaac tcggacttgt gattgcaata 3240
 tctgattcag gtgcgcattt ctacccacg tactaagta cctacctatt taccagggc 3300
 gacaatctca acaccggcg gctgagtaca accagtattg gtccat 3360
 gtccctggc aggagctctg aattttccg acttctcgac gaacc 3420
 gcgctactat agacgataga ggttcgtgat tagaccatca gataagatgc gcgacggagg 3480
 gctaggaaaag ctccagaaga ggatgaggcg attcggcgat actgtatgtc ctaagtatct 3540
 ccttggtttg tacgccgaat gagatttaac ggacacgcag ttaaaccgg acgatgcata 3600
 ccttagctgt gagtcttcta tgagtactta cctcggtga ttacgggaat gaggtttgat 3660
 ctgactgggt tggagctcat agatcacgac atcagggtga tgccgtgctc tgatcctagt 3720
 tgaaactgga ctgtcactaa cttcttttcc tggatattag tgacaagagg ggatttacia 3780

tctctcaagg atgactggct aacggataac gttcgtttga tcacatttct gtatgattaa 3840
tgccgaaact gactgaactt atagattatt tctttctggg aggagtgagt ctggaatcct 3900
ggatacgcaa tgaccggcgc catggctgat cgtcccaggt atctggaacg cgagttcctc 3960
acggaatata agtcatccaa cattgttcta cttcggccga gcatgtcctt tatgattctc 4020
cagactccga atcctcattc ccttcgtgac gccctacctg acttcacacg cacaacgcac 4080
gttttctgc ctataaacga ctgccgaaac gtcacagaag ctgagggggg cacacactgg 4140
tctctgctcc taatctcgat agtggacgga gtagcattcc actatgactc attaccacca 4200
gggaattact gggaggcgaa gacagttaca atgaagtttg gcgctctcct taaccgtccc 4260
atacggtttg tcaacctcga cgattcacca acccaagaga acggcagtga ttgcggcgtg 4320
tttgtttgct tatctatgcg gcacctcctc ttaaaacgat tactgcgagc aaactctaata 4380
gagaaagtta gtatgagttt ggggtggctgg aaggtagacg cgcgcttggg gcgcaaggaa 4440
atagccaaaa ttatcgaagg gttccggaag gagggcgaaa ggcgaagatc gtatgtttcc 4500
aagctccctt gcttcttctg cagtcgctga cggcgcatgg tcctccagag ctagtttaag 4560
cccttcagga aagaaatcga ggagtccgcc gcgtattgag tgatagttgg cccgaccgct 4620
tctaccgtac atacgagcat ttacttttct acttggcgca cttggaggat ggtttactaa 4680
ttactcagtt gcattgggcg taatgacgtc ggttgacga gacgagacct tacatcttcc 4740
tcaattgagg acacgagcat ggagcatgag caacgcattt gttctggaga ggggaatatg 4800
atgctgtgct ttggttctcg tctattaata catcattttc ggtctgcgtt ttggatgcga 4860
ttctgacttc actggcaaac cagtttcta tcatatgtgg atagcatggc ctcttggtac 4920
ttagcgtaat agtgaacttt cgaacgagtt gcgtttttac cgtatagttt gagatctcga 4980
gcgtacctct ggtggtcggt tcaggtctgg acattgcacg tagctgaggt caaagcctca 5040
gctgcctgta tccgcttata tcctccggag gctaataatc aggtttacat ccagctccga 5100
atggttacgc gactactttc cattctcacc aagagacttc atgcatgagt ttcgcactgc 5160
ctgctcaccg tatggatatt tcttactccc ctgaatgtgg gaatctaggc gtcgatgatg 5220
cctttaatcc aatggatgct tctcaaccgc tgctgtgta gctttaatgt tcgagttcac 5280
gctataacctg ggctgcagtg ttgtccgaga ggcttttagt gaggtactta ctaatgctgg 5340
tttttcgtac tggttgctac agcaccgagt ggcaacgtct cctcaaagac cggggagaaa 5400

gggagagctg agctccagca ttattggaat gaggttactt taatctaggc ttctttgcca 5460
 tttgcatggt tacagtgcct gttaagctgt tagtggtgcaa tagcttgtct ctggaattct 5520
 ctacagcttc aacatcaatg caggatgttt agggcttcgt catcggcac ttttgaaagc 5580
 gccgtgaagt ccaatccgcg gttgctatgc tcggaggatg ttctttcttc taccttaacg 5640
 ttgacctcga tttta 5654

<210> 3679
 <211> 3069
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3679

ccacccctctg tgtgtctcaga agtggcccat atgttgatta tctgctcagt gtctttatct 60
 tgacgcagaa tatgggatac ttccagaggg ccaacgctta tggtagaag ctgtgccgac 120
 tcttttgatg gctggaccga tctcccttg ttgctagcca cactccctga ggactgcgga 180
 ggtttggcgg tctcctttgg ttggtctgag ctctgaatgc cacgtttgga cgaccacata 240
 atgctgcggc ggggtttcag acctggcccc ttgacggaat tgctggcggg aggaggcttt 300
 ggcgagggtt tctcttcgcg agaagctgaa ggtgcagtct gaactggagt gcttgccgaa 360
 gcaacctccg gtgctcgaac gctcactaaa agatagagct taggcccgt tgctgatcca 420
 tccccaatat ccgtagccgc caattcagt aagagagtct ttagcttatt gctctgccct 480
 gaacttgca attgttctgg ggaaggaata tccagaacat acgtctcga caatgctttt 540
 agagggccgg tgtccgatac cgtgcacaga ctgacggcga gaactactgg ccagggggca 600
 tttcctgata cagcattgac ttccacgagc aaatgatgaa gagctgcggt gtccgacgca 660
 ggcgtgggac tgctctcgag catgctcatt tcggactgga gctttgctaa atgtacggca 720
 gaatcctcgc ctgtcaacag tcgacctcgt tgttcaggat cccgcacaat cacttccccca 780
 ccaagtagct tgttaccccg aacaagtttc caaacaacct cttgcctgag cacctccttc 840
 tcttttgaag ttagcacgtt gtataggagc tgtcgtctgg cataatcaag ctctggacg 900
 atagtcgaca tttcttcac aacctgatat tgctgcgaca gaagcagctc atgtagctta 960
 gtcgaatgcc actcacgcaa acatgatgcg atctcgtcga ccaacggctc ggaaagtgag 1020

gtgggagttt cgtcgcctat tttgagcata ggcactggcg cacgtggctt ggggtgcatca 1080
 ggatcccgcg gggctacatt gaccggcgta agtgggaagca ttccccaggg actggccccg 1140
 gccctcgtg gagtcgactg gtcatcatcg tctgtcttct ggatgaaaat ctgtgaaggc 1200
 ttctcttttc gcgcgaccaa tacttcagat atctcgcccg aaacttggtc gtcgtattga 1260
 gaagaagcta aactgctccg cacatccacc tccgcatctt ccgccctgtc gtcaattgag 1320
 cagtcccat ttgtcaaggt cttatttctt tgcgtatcac ccaggacttc gcggatctcc 1380
 acgcaattgc gggggaagat acccgaaaat actcgcgctt caagggtctg gcctttggtg 1440
 ctcgttaaac ccgccagcaa agacggcgga gcaaccaagt agcccgaca ccattcacca 1500
 ttgttcccgc cttgttctat tatatacagc tcatcaccga gttctaacgg taggtcggcc 1560
 ggagtagagg gctggaaggg gtagatggca acggcaaaag cgattcgagg cagaggccgc 1620
 cagggcatgt ctgcagtcga ggcggcggac cagagcgac cccgcagcag tcgtcgccgg 1680
 tacggggccg tctcgaggaa tggaggggca gcggttcagc ggaggcagaa agaaagcagg 1740
 aattctggtt tgatcaaggg gacaagccgc gacatgcagt aatccctccg agtgtatcgt 1800
 gcgatttgag aggaatgtag attaaactca acgccgcacg gatcagaaac agtgatagct 1860
 gaggctccta gactaggaat tgctgtaaac ttgaaaccta agcagagaca acaattagct 1920
 tgagaattct tgtctgagac gggccctaaa taggccaact gaaaagagtt gagcgcaagc 1980
 cacagctcag caacgagcta ggagccaaag ttgtaagtcc acgagagcaa aacagttggc 2040
 acgtcaagta tacggatgaa ttgaatacta atcgcatcct agtcctgtgc gatatctgac 2100
 cccctagtgg gcggaggtgg agtccccggt cgagagcctt tgctcagctt ggcgggaacg 2160
 gtggagaagg taaaagaagg ggggtgcgaga aaagcatacc ggctgtgaga gactgagggt 2220
 aggagtcaac agacgaaagg agtggtcgtc tgagagaaag cggaaagaaa aactagaatt 2280
 gagcacaagc ccgtgaaact cgaaggtgtc aaatgggaaa atggcgatcg cgcaggagcg 2340
 aaagatccag agggtcgccg ggtcgatcag ttcgtcgagc gtgaggcgga gagtagggac 2400
 agatccaatc gtattcaagc tgccagggcc ggactcagaa aggactttgt tgtctcttga 2460
 gaagggttga atgataaggc aatcatgttt gcccggtag tagcatttct cctgcttacc 2520
 gtccccccg gatgtttggt gtgatagtga tagccctga acctgaaatg aaccacttca 2580
 tcccatggct ctgcgcctga gcacccaaac ttgggcgatc ccaaagcaat caatcttttt 2640

ccacaggcat cctgccgccc actcggttatg ttttaacatt gcagtcacgc ttcttgagaa 2700
attctttact gtactcaagt tggttttctac tgtcgatgct ccctgtttgg gcatatcgta 2760
ggcatctcaa aactacattt gtcgctgaaa tagtagataa aaggtgatgg attgctaaac 2820
atattcaatg agaatccaag caagcgccat tctatgaaac ctgcatagta gaataatagc 2880
gcaggaggat accggttggg acggatagac atagaaagat acattatcat ttcctaaacg 2940
tagcggcaac atcctctttg cgccactcaa gctcaagctg accttcatat actgcacgga 3000
tcacatgttg cgttcgggtca taggcctgct cataacgact ntcacattcc cgagcacttt 3060
gattaccag 3069

<210> 3680
<211> 10380
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 3680

aaaaacctcc ggagtcgagt aagatttggc atgtgctgcc gacgtttttg ttttatctac 60
tgtactactt tcaagtcggg cgggttagtt gagccttcac cattaatctg tgttccttgt 120
tcaacattac tcatttatta tgtattttca gatctgcctt gatttagaaa ttctaggggc 180
tctaaaatta aagcattttc acaggtccgg cagctccaca ctctactgg aattccagag 240
ctacactcac caccttcac ctcgctagga tagatgaaga ttttggataa aatgctttgt 300
gtgctcctag cgcctatggc caggtcaatc cagtcgacgt ccgctatttg ccaaattctg 360
tgatgtcaac agttaatcca ctccactgga catgatacac gatgagtctt ctccgctatc 420
ttattttctga cgtcgaagcg gctattgccc gctcatggtc ttagttctgg actggcaaag 480
ttgtatgttg tattacaagc tgtgcctgca tactgaaatt cttgtcagct tgcttcccc 540
ccctctctt tcaactaaga ccaggttctc tgtccgactg gttgttgaaa catcaccaat 600
gcgcacttc gataccttcc gttagctgaa gttccttgag ctcttttgaa aggggtagaa 660
aaaggcaggc gtatctccat ggacaaaca agcaagcgaa ccgagcaaaa tgcgggaaat 720
aggagggcga aggtgagcac ttcgttcaa tctggacacg gaatgcttat tcagggaaat 780
attgcgtcca aaggtcttct tatggaggtc tttaggccac agacgagcca taccgaaggc 840
cttgaatggc tgttttctat ggttgacggc actcgtctta tccggtgtcg gaatccagct 900

atctcacgta cgagatgttg acctgaatgt gagcgctctg tctgtcaatt gccccgcat 960
atcgttatga gctataacct acacgatcga ttgatagcaa cagctgtcat ggaccagaaa 1020
tgcaccgcta gaaaggaact taggcgaact aaggctctgtg cagagttctt gcgactgtgc 1080
acgaatcatc gctggcttcc aactggtgaa cgagcaattt gactatacac catgtcggca 1140
tgtctgttca cagatcttgg ccagagttct ggcgaaatgga cggccagagc tcaacaacat 1200
tattcttttc tacgtcattt cgatctaggc gaactgcac attacaaatt agttctgttg 1260
gctaactggc taactggctg acattatgat acatccttgc tttgcttatg gcggcgatgc 1320
caaacaaaag gtaataagaa tataatcaaa aaaaattggt caaagttgca ttactagaa 1380
ggcattcttt gtgatagtta cagatttaac ctaaaactca taatgtaatt gcggatgact 1440
tgcagcacac tggtcttcgg ctatctgaac atcggagtc tataaccaa actctcatat 1500
attagatggc aaaagagtag cttctcatca cttcttcaac cacagctcca aggccttgaa 1560
aagagataga aatgctcgaa agatactggt cgtatacaag tgagatggat tgtccacatg 1620
aatgacaaaa gaaagccgga atccaactcg aaagagcgat agctcgacga cttatggcga 1680
ctgcctagcc atcaatctcc taactagcta cagctgaccc ggcttcctag aatcgcaatc 1740
tgcaacaggc taggagcacc tcagcaccac ttaagatcgt cgatactgat actttaaatg 1800
aaattcatgg tgcttaaaat attaactctgt gtatgttgta ggcaagattt aaggcttata 1860
gacgaggcgc ttgtgcagat ctacttatgg catcattgtg caccagatca ttacggaagt 1920
ccccatctac tccccatcta caagtttata taatgcctct actatataga tatccgaaaa 1980
actcgacact agagtagtac ttctcgggta taccacagtc tccataacag tgcgtgtcgt 2040
ttatcccaat aagtaagtgg atcccatgat tctgtgccgt tcaaaccgat ccatcaacca 2100
ttttgagtcc cactaccgc agcctacgaa cactgctcg gtttatcttc gaaagtcgtc 2160
tgccctctcc cccgacatat ctttaacaca cagcacgatt gttgtagacc aggaattcct 2220
ggcgttacct cgactggaag actaaacact cgtcacggtc aattcacaac gctgggttgg 2280
gttgtcggtt gatctgcgag atcatccgct ctcgagcttg gcaggtgtga actgactcgt 2340
ccaagaagtt gattttcttc aaggacgcaa aagagaagat gtttgaagtt agataatcat 2400
cggccattga atgcatatga cgatgcact tgaacttccg ccgcctccca gacacctacg 2460
atctcccggt gctgagggct accgtacgcc aacgatcgag gacacggaaa aagagttgtc 2520

aagaacatta tcagaaagca atgtagccct tcagccaaca ggttcgctgg tgcgagaggc 2580
gcattcctca gcgctagagt ctacacatga ctcttttcgt aaccggcaca gtggagtcga 2640
catgtcacta aatcggacga taactgaatc ctcggggggg aagctcaact ggaagaaacg 2700
aatacggcac ttacctggg cgttcttcac tctaacaatg gccacaggtg gtattgcaa 2760
tgttatatat tctagtaagt cgccaggccc ttaagccatc agccactaac ggcaaacagt 2820
accttataga ttccgaggct tggatactat tggaattatc ttcttcctcg caaatattgt 2880
cttctatatt gtaatctggg ctatactgct tacgcgcttt tacttgtttc catatacttt 2940
caaggcgtct cttttgcac ccacagagtc attgtttgta ccagcatcgg tggctctctt 3000
tgggacaatc ttgattaata tctcacagta tggcactgat aatactggac catggcttac 3060
taacgctgtc catattttat tctggattga tgccgcctg gctgttatct cgtctgccgg 3120
gatttatctt cttctgtatg cccaaccctg tccatgtcat taagatatgg cttggcaggc 3180
taattgtagc aggtgggtcaa cgcagacctt taccatagcg caaatgacgc caatctggat 3240
ttttccggcc taccctatgc tgataattgg gcctcatgct gggctttatg cgctaagttg 3300
aagccctcta gagccctgcc catcattgtt gggggcacga ctatccaggg agtgggggttc 3360
ctggtttcat tgatgggtga ttcggccttc atctaccgat tgatgtccca gaagctgcca 3420
agggagaata tccggcctgg gatgtttgtc tctgttggcc caagcgcatt tacggtagca 3480
ggacttgtga ctatggctgc tcaggcgaac agtgttttcc cggatgattt tatgggcgac 3540
ggcattttgg ccgccaacgt cttaaagatc gtgggtcaatt ttgcctcctt atggctctgg 3600
gggtgagtac ttttgctgcc acagatttcc aagctgacct ctcagtcttg caatattctt 3660
cttcttcac gcaagcttcg cgcacctatc cgccatcggc cctgggcgaa tgattttcac 3720
gatgggctgg ttctcgtttg tctttccgaa tactgcgctg atcacgtcga catttgca 3780
gggaaatgca ttttcctgca aacctattct aattataggg tgtgtcatgg ttattcctct 3840
tgtgctgatg tggctcttcg ttgtttatat gatgatccgc gctataatct tacgtcacat 3900
cctctggcca cagaaaggag aagacaaaga cgaggagggg tttgaaatca atgagatcag 3960
gcctggcact ctcggtgcag aattccagta aggtttctac tgacgcagat gattgtgctg 4020
ctaccatttg aatgaatgat catagtttgg agggatttga aagattttgt atacatgtga 4080
tttaaacc aa accattcaat gccattcgaa aaaaagcag gctatataac ctcacggatt 4140

tgggctctga acacccatcc acagtagtat gcatagtata gaagtaatca cagctggcgt 4200
 cggcaggctc cgatggcaag ggttcgcagg ctccaccttc ttgggaacgg tccaatccat 4260
 ggcgggcgtg ccacatggaa ccttatccat ctaacttggc tgtttttttt ttctgcccct 4320
 cggactctgt cttcttaaaa tattattacg cgttttcctc tcctctgctt aatatctgtt 4380
 gcttgaagaa cactcgtctg tgagctttcg gctttatcac gcacagctct tatccatctc 4440
 tcgtcttatc gcgctatcgg gaaacctctt atcgtcaata tgccccaaaa agtctatgtc 4500
 acctacaacc aggtatgaat tgctcagtct gcgcattcaa gattccagag ttgcagaact 4560
 accctacaca acatacccg ctttaagggt cttcactgga tactcgtatg tcgacgtcag 4620
 gtcggtctaa caattgttgg gtataggtcc acaagctatg ccaatcctcg gctgaacaaa 4680
 tcctcaacac attccacccc aacttgatga tcgctattgg tggaggcggg tatgtccctg 4740
 cccgcatcct ccggtaaatc gaccagatat catagagaaa ttatgatctg atcaatcact 4800
 agatcgttcc tcaagcgccc cggcgagccc aacatcccta ttcaggccat tgggtctgtcg 4860
 ctctacgagg atcttggtcg cggtgacca gaggaggtcc ccggtacaaa ggttaccgga 4920
 acacaatggc tggacctgag ttccctggaa atggccaacc tgattggcaa gaacattctc 4980
 attgtcgacg aggtcgatga cccccggaca aactggaat atgccgttcg tgaactgcaa 5040
 aaggatgttg agcttgcgca aaagcagctt ggtcgcgaag gcgagaagac gaatttcttc 5100
 gtgtttgtgc tacacgtatg tccctaccat gatttgtgtt gtgaggatgc caacagcttg 5160
 aacagaacaa aaacaagtcg aagaaggcca actgcccact gacatgatgg agtccggccg 5220
 gtaccacgcc gctgtacca ctgatgacgt ttggatttgc taccatggg aggcgaagta 5280
 tgatcaaagc cttttcattt agaaccagtt acttatcagt ttatagggat attgatgaac 5340
 acgacgcact cgcgaaggca aaccccctag tctaagggtc agtcagcgaa aacctcaatc 5400
 tttcgcatct gttatgatct cgaaatgcgc tccctccgcc ggttactaga atcgtcccc 5460
 ctctgcttcg aggagccaac gatctcaggc gtcttttacg aatgggtttt atagataaaa 5520
 gcaatcactt cagcatatct tcataagagg atctatctac ctgcaggga tagaccattt 5580
 ttttgcgtag tcgctttttg gaacattcac ttttttatga gttctcacgc ccaggcacga 5640
 tcccacaaa acaatctcac tctgcgatct acacatacct ggcatacgca ttttatgata 5700
 ctgtatgcag ccaaatgca aacagaccgt atcattgtag tatatattac aatatctcct 5760

ttacctctcg tgaacctatg cgcgccatat gagtggccag aggcctcgcc tcaaatgcta	5820
taatagaaag ttatcggttcg attctcgcat ttagtccacg tcaacatttg cccggcgag	5880
ttcagccttg gcctgctcga tctccccctg cagctccttg tgcgcctcag gcacatcggtg	5940
gaaagtgaag atcgccagac ccaggcggcc gagaaggtag catccgaaag atatgagggc	6000
gtaaaaaggt agctagataa cgcgcgaaatg gcgtccgtca gcttgggcat tggaactgaa	6060
aaggggtaga agggcccaaa atgacgtaca acaggaatga tttcttggtg tatagtttctg	6120
ttcagtggga taagtccgag gtagagagat aggtagaact aagcttttgt tagtttctgt	6180
taattgaagg gggatagatg tgatcgaca gaggagacga ggaggaggac ggagagggtc	6240
tgctgggcgc gcgtcattgt aagggtgctt gagatattga attgttctgt aatatgttga	6300
tcaggataga aacgaacatg aaaagattaa cgaaagcaag tgggcttcag gaaagagcgc	6360
aggttgaaga taaatgaggg actgggtttg aaagaggaat tggataatgg acacctgagc	6420
tcaccaaagg ttgaccgcgg agatgtggct gtacggacgt attataaatt acctacagat	6480
gtctaaacaa cactgggaga ctccagcagg tattactgta gagcagagta ttgagtactc	6540
atgtagctta atcctatctt gtccatgcga tttttctctc gttctataag gagctccact	6600
tgaataactg aggtagttct atctactctg aagcgatata ctactcgtac cgccacgcta	6660
aagttcggtt tctcttgacg ccttaggcg cgacgttttt cacgatgcat caatccatct	6720
tgctgtata acgagtgatt atcgcttttg tcattcgggt cagatcttag aacagagatt	6780
gggcaaaggc atcgcccaat cacttcttac aggtctacca acggatagcc ttctgcacag	6840
agtagtgagt acagcctatc tatctgcgaa cacctttccg gtttacagac ctctaagggtg	6900
ctataaaaga gatgagcagc agcaatgacg ccaataacct ggacaccag gctggaaata	6960
tagaaggatt gcatttcctt tcgctggagg agattctcca gacgcaacgt ccggcaccag	7020
agccgcccct cgccgagacg ctaccattag aggagcaaga agcccttttg tactccgtgg	7080
acgatgcctt gaaaaggcnc aatgagggcg attcggcagc ctttgaaggt atgctggacg	7140
ctttatccaa gctctggcat tgccaatccc aattcttact gcgggctaca gaagcccctg	7200
gcgaacggga gtagaaaccg tcagtatatc caaccagcta ctatgccagt tgcttacctg	7260
cttaccgttt gcagcttcgc ttctgtttgt gtacggccgg acgggagttc tggatttctt	7320
cctccagctt atatcttcaa aagagattgc ggagagtagc ctgattcttc attcccttag	7380

gctcattggg aattcttgtg ctgacacagg taagtctttt cttegtggat acagacttca 7440
gatttataaa ttatccagat gaaaaccggg cgactgtggt gaattatata ccagccattc 7500
tgcagtacct actgcagcct gaactccgcc aggtcataat tcctgtcgta tataatctat 7560
gcattgacta tggatgtac tctgctttct agatgttctg cctgactgac gacatgaaga 7620
acccgcccag tctcagttag cggcgaacaa aatagtgtat atccttttaa cactgggtcaa 7680
ggatgatgca ttccaggga atgatgtctt aattgaccat gtctacgaac taatagagct 7740
cgtgggcgag cagggtatgc atcgtctctt attcgctagt actcactaac gattgcagaa 7800
caaggcgttg aaaattctcc tgatgggaca atttcattac tactagccat gactgctgct 7860
gaaccagccc aattctgtat ccttgccaac tgcaccgagg cttatataac caacactaga 7920
tttcaggata tctgcatatc aagacgcctg gtctcggata tcttgtcaat gctcacacgg 7980
tctatatcct tcgacacagc aggtctctgat gacacgcaag caatcgaca gtcacggctg 8040
aagataaacc aggccttagc agagttatct gcctcgccgc gttttgcaat gtcctaccgc 8100
ctaaactcat ccctctcgca gacgctcaga tcttggttaa atagcccaga agaccaactt 8160
cagatctgcg cctgcgtcat gctcggcaac ttggcacgct ccgacgagat ctgcgtggcc 8220
atggtaaagg aacaaaaaat ccacgaagag ctgatagccg tcctaaacag caatgccaga 8280
ggagcagcac tacactctgc ccttggattt cttaaaaacc tggcaatagc cagtgacaat 8340
aggatcatta taggcaaagc tgggatcgtg ccagccatcg cgcgcctatg ggcgtatgaa 8400
accatcccgc aagtcagct ttcagcaaca agtatcacca gacagcttgt caattcgtct 8460
gtcgagaata tcagtcggct actggagcca gcagaggag aggaagcgca gtcttacctc 8520
tcattacttc ttgctctgtt caaaaggacc gattcaattc caatcaaac agagatgggg 8580
cgcacgcag ccgcgatatg tcgcacgctc attcccagat acaaagccgc cggtgactgt 8640
gttctcgaat ctctattcac tcacaaagac atagcccttc cactaggcgc catggtaacg 8700
caaactcaat ggctgtagt gcggagcgag gggtygtttg ctctcgact gatggcatcc 8760
acaaaggcag gctctgatgc ggtcgtcaat tgtctgcaa acattgatgg tttctcttta 8820
attgagcaga ctctaggcgc tgcagaacca ccggagaccg aggcagacaa ggtgcagtgg 8880
ggcaaggacc gagataatat tataattctc gtgcaggagc tgctaaagga tgaggtgagt 8940
ctcttaactg ccaattatac tcaggctgat cgatatcctc aggccgatac tgttgacgct 9000

tcctggaaaa ttactatgca aggcctgatg agacgccatg tctcaaagta tcttaagcag 9060
 ggtaattgac actgaacttg aacttgaacc tgtgtgttct tgatagacca gatatgcttt 9120
 cccaatcaac tgatgttaaa atatcttgct caacatcata cctttgtcaa ttgcgtcggg 9180
 tatatatattc attccaaact gtcacgtggt gatatccaca gcatgtgggc cacctaccga 9240
 ggtcaggact cctttggatt aaatctaaaa ctagatacta gccagtttac tattcgtctt 9300
 ggagacatcc ttcgttttta ctgctgtaat tgtaatgtct gacgacagtg acaagcggaa 9360
 atcggtccta atcacggggt aagcctatcc ttaacattgg gctacactgt agctagctcg 9420
 actcaggga tccctactga gccttgcta tcctttgata cagctgcgct cccggaggaa 9480
 tagggaatgc tcttgctcgt gaattttaca gaaatggtct gcgagtattt gcaacagctc 9540
 gaaatgcgag tcagcttgag gatcttgaag ccataggcat cgagacgctg agtttgaccg 9600
 tcgacgatga agatagcgtc caattatgct ttgcagaggt ggagaggaga ctgggtcata 9660
 aggttctaga ttatctggtg aacaacgcgt gagtttcaga tgtaaaggc taacaccttt 9720
 gtgctgacta cgccataggg gtcgcagcat gtatacgaac gggtatctat aggccgcggc 9780
 actgacgaca gccagatttt acgggccctg ctaccggagc tgttcttacc ctagacatcg 9840
 cgtctttctg actgctcccc ttcttccttg tacatcatct actcatattt ttttcccttt 9900
 gttcatctag tgttttctct gctttcttct tcgcttctgt cgcttctctt ctttttctcc 9960
 tctcttacct ccttctctac ttcttctttt cctctttctc cctgccttac tccacattat 10020
 ctcttaate atttatctct cctctctgt cccctttctt tttttttctt tccctccatt 10080
 tctctcttct ttctcttctt accctctctt cttctaccct tctcttctct cctttcccc 10140
 caccttttct ctttccccct cctacttcta ctcatatact ctttctttct tcttttctaa 10200
 cttccccctt tcaactcttt tcttttact ccttatttct ttttcatctt acctctatct 10260
 ttcttctctt taactacttt ctattgcctt acctatttaa cctccttcat attttctatt 10320
 ttctctgct cctctctttt cctcttctct ttctttttc attcatttca tctctctctc 10380

<210> 3681
 <211> 2843
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3681

ggaagaagag agagagaata tagagagtaa atagaagatt atgaaaagag agagaggaat 60
atgagaaaag aggttaaaag gaatagggag gagaagaaag agagaatgaa aaaggaaata 120
ggaaaaggag ataaaaaggg agggagagag aatgaatgat agaagagata aaggaaaggt 180
tgtaaatagg gaaaagaaga gaggcagaat agaagatgga tcaaagagaa gtcacgtaat 240
gaaatgataa aaaagggaaa gaggaagaag gaagaatatt aaaagaggac aatgaacaat 300
aggccgagaa gtgaggagaa gcagtataag agactgagcc ggacaagaga gatagacgat 360
gaacggaaat gagacaagaa caagaaacag acaaaggata aaatagaaca gagaagtgga 420
acacaaaccc cagtagagtc tatgcgcaag taaggacaag aaaaagtgag tcgaaagacg 480
aaccagcgcc ggacccatgg gcctgcccga tccatgcctt atctaccata tacacagtat 540
ggactctgca cctgtactcc atactcccc acctcactgt gtacgcgtag tgcacgctgc 600
tgcagccaac tccaagccaa ctgccccacc agcccttcta ccaaccagtg gaatgcgtca 660
aaaagcgagt ttcattgtctt ataattccact gcaattcgtg gttgaagggt tccctgtgaa 720
tatggagtta acatgatggg gtatatctga cgtttgatcg gcgccgaaac ggttcgtctc 780
aggcttcccc gggacattga tgaaatgcgt cctttggttt ccgaagtatt gattcatgct 840
tctgttgaat tctccgcaga ttgggtggga gaggtagtgg ctgagagtct aaagtcacat 900
aatgacgctt taatgggcca tcaactgcgat ctgatctttt cttgatacat cattgcacag 960
ataccagata ttcatagagg tagagaacac agttcagtca ctattagata cagttgatct 1020
ttcgttggtt aatgtacata ttatacagat aagtctcagc tatttttcagt cgcccgcgaa 1080
gtcaaagaag ccaatgctgt ataagcacca aatctgaaca caaaccccca tcgtgctgga 1140
catcataacg tcgtacagta attgtcaata taatacagtg agaaagtcatt agcacagcat 1200
gcaatagaaa caatcatcac acctgtgtat agaaaacaga acaataacag acggtctttt 1260
tatccatgct tccacccatg cacaaaacac acgcaatcta tagctcaatc gagaaaaagg 1320
aacaaggctg gcttgctgaa tcaatacaaa agtagtaacc ataaaggaaa tcgaagatga 1380
gagaaggaga aagaaatgcg tcatcgagca tcaacaagga ggtaaactga aagttgggac 1440
gtaagttgtg ttataggtga cgtcatgggt cctaattgcac ccgccaaaat ggaaagtctg 1500
atgacgatcg ggatttgtca gcagtgcgta ccccttctt cccctttgag cgacgcctat 1560
gacatcagag gctggctcat cgcattgctga gtcattcggg gctctcacga actcgtgagg 1620

cagttgatcc cattcgctaa gttcgcgggg ttagggaagg ctctagcaga gcaatactgc 1680
 atcccctgag aaattggata actctctact ccctcgtcct gcgcttctgt ttgccggggc 1740
 attccacttc gggatgtacc acccgcatgt gccgtgtcag agcgtcattg cgcgaaaagg 1800
 tcttttcctc ggtgcacaga tgacagcgga ctttctgttt gcgggcattg tggatcgat 1860
 cttcgtgccg tgtaagatcg taaggccgag agaagataga attgcaaggc tttcctgtcg 1920
 aaggattcgg acgggtgcat ttgtggggac cagcttgca gttgcgtgat gtcccgtcac 1980
 gcggtgccag gtgaccccc ggtgtggttt gacgatgcgc ctgcggtttg tgtttttgta 2040
 aatcagatgg tgtctcaaaa cgctgcgtac agccatggta cgtgcaggtg taggtgccac 2100
 catttgacga tgtgttcgca ggtcgtgca ctgggccagc cgtcttcgac agagtaggcg 2160
 acgttagacc attcgagtaa gcttactgt tcgtagactc gaatcgaggg attgacgcag 2220
 gaaactcagg agtgtgatgc aggaagttct gttgctgttg ctgttgctgg gatggtcgtc 2280
 gactggaagg ttgcgactga ggctgtggct ggttgaaggt gaactgggac tggttgaact 2340
 gagcagggaa tgattccatg gaagggaat tcggagccgg ctgaaagctt tcctgacgaa 2400
 gtccaagatt gtcacctagg ttgaagtcgg tctggtaaag cggtagccca tgatcgttac 2460
 cctcattgaa atcgttgagc actgcgtcct ttggggaaat tgtctttggc tcagtctggg 2520
 gctgatgctg cattgccatt ccaggttggc tggtaggcgc gctagtcata gcctgctgtt 2580
 cgtactcggc agccatggga gaattttgtc tgaacggaga acgttcccgg gctattgagc 2640
 cacgggagac tgtacgcgtg cacagagatg gcccttgttt gcacctgta cccggttcgc 2700
 aacgatattg ttgtaggaga ggggccagca agttctgctg gttctcgttg tcttgacag 2760
 agagctgtgg tgtttacatc attgtcggac tgaagagctc gtcttgataa gcactgtga 2820
 tcgttcggtt gagttttgtg gat 2843

<210> 3682
 <211> 2503
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 3682

ttattcatat tgtacactca caaggtcata tagagagggt caagtcgatc ctaaatactc 60

actaccgagt gtactaatga ttttgcgcct atggcggcct cgagcagcat tcataaggaa 120
 tacctgggtc cgaagcgaaa gttcattttt gtttctatc ctcgactgaa agaagacctc 180
 ttagccaagc cggcacttgg gcttcttgaa actctggggc tgcctaagga gactgcggtc 240
 ccggaagttg aagagccgcc gactggaacc caggactcca atactttgca gtctccatca 300
 ccgcataatcc tcgagctaga aaacattgta catcaacttg gacggtcaga atgcccagtc 360
 aaatttgctg acgctcaaga tttggagcag agtatcgag ctctgaagac aattagggat 420
 acagaccagc tccatcgagc caatccacta atggaaaaag gaacacttga tcaggatatt 480
 ataatatcgc gcaataagat caaagactac tatgactgca tcagcaattc tctgtctgct 540
 tctgatgaaa cgttcaagtg gctatctata ggcaacctat ggccgaccct gactccaact 600
 acaattctac aacagctacg ttcgacatcc cgtcatgagt ttggacctga catgaaagaa 660
 ttatttgtct cgtacgctct agcgattgcc aagctgcaga agcttctcag gctgaaagag 720
 gctgccacga agcgcgagga aaatacggtc aaccacgatt gtacggatcc tggccatgtg 780
 aactggaatc cgttcgattt tcctgactgg atactactcg agatcgatgc aaactttcaa 840
 attaggcagg accaggttac tgtagccatg gagatgattt caccttcctc tgggtccaat 900
 tccgtccttc agatgaatat gggccagggg aaaacgtctg taattatgcc aatggtagcc 960
 gcggttcttg ctaatggtga ggtactcagc aggcttcttg ttccaaaagc cctactatct 1020
 caggcagcgc agatccttca gtcacgcctt gggggtctcc ttgggcgaga tattgtacac 1080
 gtcccgtttt ccagaaggac tcggacaacc cactctcttc tgggaagacta ccgtcaatta 1140
 catgagggga ctttgctgag ctcaggtata atactagggg tgccggagca tatcttgctg 1200
 ttcaaactca gtggactcca acgactcgct gactcgaaac tgccagaagc aggtgtgatg 1260
 atcgacacgc agaaatggct ggaggaagtt tctcgggatg tgattgacga agcggacttt 1320
 acgctggctg taaagacgca gctcatatac ccaggcgcct cgcagctagc ggttgatggc 1380
 catcctaaac gatgggaggt cgccatgact cttcttggtc tctgtgcatg ctatctcaaa 1440
 gatctctcaa aagaataccc ccggagcatc gacattctcg agcggaaactc aaccgggttt 1500
 cctgtgactt acatactacg gaaagacgtg gaacacgctt tggttcacia gattgcgcag 1560
 gatatatgca acgaaaagac atctttgttg ccgctccggg attgcaacaa aatggacaaa 1620
 gaagcgatca ggctgttcat taccgaggaa aaagtcgaaa agtctgtgac taaacgcgtt 1680

gcaaaactgt tccctgacac ccccaaattg cgcaaagttg tttatctact gagaggctctg 1740
ctggtacacg ggatcctcat tctgtgctc aagaaacgct ggaacgtcga gtacggactt 1800
caccocggtg gggacccaat cgcagtgcc ttccacgcta agggagtccc atctgagcag 1860
gctgaatggg gtcacccgga tgtcgcaatc ttgttcactt gcctcgcat ctactacgag 1920
ggcttgagcc agcagcagct taagaaaagc ctgggagcag ttctaaaaag cgatcatccg 1980
ttcactgaat atgagcgttg gacgcaaacc tcggccacgc ttccggaggc gttacgacat 2040
tgggctgcca tcacgggtga cgacgcaggc ttgggtgcgg aaatatggag gcacttgccg 2100
tacacgcgcg aggttatcaa tcatttcctg agcaactttg tgttccctct gcatgccaga 2160
caatttgcca ccaaattgtc agcgtctggg tgggatttaa ttttgagtcg cggctctcaa 2220
tatcgctcga cagatgggct atgggtccat cctggtttca ccaccggctt ctccgggaca 2280
aatgacaacc gccgacttct cccactcacc attgagcagt gcgacctgcc tggcttgcca 2340
catacgaatg cagaggggtg tgacctatct ccttcagccc aggaatcggg gttatcgtgt 2400
ggctatcgng ccgtacgaaa gacgcatgtc cgagaatgcg ttgttgaggt atctgtataa 2460
ggagaatatt cggttctcat tgatgccggg gcttttatca tgg 2503

<210> 3683
<211> 12377
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3683

ccggatgctg cgcttttata ggtttgactt caaaagcgac ggtatttgaa tccaggctaa 60
gatgttctct tggggcgga tgggtacgaa tgggtggata accatagcga ctattactgt 120
ttcgatacta ttgattttgg ctgttatcta cagcaaagtc agctagacat cgggttcgag 180
cgggcttttg atctgattca ttggagcata ttgactttct tctcagaca gtagtggaa 240
gtgtatgata gcaccatcca ttcagctttc atgataataa accagtacct aatcttctga 300
catacccaac gttgactgca tctcttcccg ctaacgaggc gacaaagtaa caaaagaaac 360
gggtatcacg ggcacagta gtcactaat catagaaaac gtgaaaacgt aaaaacctct 420
ataaatcacc ttaaccacag cctggatccc agcaggccgc cttatcaacc cataatgcgc 480
atcgctccga aggcgatatt aaccaccag ccacaaaaca ccgccaaccc cttccgccag 540

ctccagacgc	cttctctcct	acgtaaccac	atcgcacac	caacaggcca	gaagaacccc	600
atgacagcac	cccagagcat	atcatcgatc	gtcccccttg	agttcgaccc	aaagccgcca	660
tcatcatccg	tgaatgaaac	tccctctcca	cccgcgacag	ttccgcccgt	cgccattgtc	720
gatgaccctt	catctaacca	tctgtcctca	agctcacgta	gttctgcccc	agtaggcata	780
gtatcccag	tacgagaaac	agatagagta	gccatgaact	gagatcgag	ggctgtgact	840
tctgcccag	taaacccggc	tgatagtagt	cggtcgaatc	ctcgcgggcg	gggtatcgtg	900
gaagaagagg	cttggccgtc	atgactttgc	tggcgagagt	gagaatcttt	ggttttctca	960
tcgctagacc	gggtgtgagtt	gtgaccctgg	atttgaagcg	ttgaaacagc	cgcagcttcg	1020
gcttcgaggt	ctgcggcgct	caagacaata	tcaccaattg	agcagtgaac	atagagccgt	1080
gggtggctcac	ggatgggtgc	cttgcctttg	tcccgttttg	tagatatgcc	ctgattactg	1140
gtatcctcgc	tggctgcata	tttgtctggt	gccgataatg	acttgagaaa	ccgatttgag	1200
ggaggtggta	acttgagggg	gacagctagc	ggggtggtat	cttcgagacc	acgaccagcg	1260
tagatcagac	ggagacgatg	cgaggataag	cttgggtggg	gccgagctcg	gatggcttgc	1320
ttgagacctg	tggctgtggt	ggtttcgggg	tagtcgatgt	caagacggag	gtctggtatt	1380
gacgcggaga	agcgtactgt	gatgaagaga	gtgttggtct	ccggccccgg	agggttagga	1440
gcaaatacac	ctggaggggg	caacattgcc	tataattgcc	ttttctgaag	tattagatga	1500
tgtgtgtcat	ggcaagctct	ctcataaggt	gtaaagaaa	taatgggttg	tggttgcctc	1560
gacaatgatc	tcacgccacg	tgatatcgtg	caataagcag	ttagaagtcc	tatggaaagc	1620
ccttacgtag	gatacatact	cctcacccta	acaccgttcg	attctatacg	tgcgtttata	1680
gtgtagtatt	ctctattctc	aactgccgac	ttccacgcag	aagtacttct	cggctagtat	1740
tccctccatt	tgtactcccg	tacagcgata	ggttcaccgt	ccgttcatgc	agaggtgcct	1800
ggttgatagc	catgggctag	tgaggactgt	agaagaaaac	tgatgctctt	actgagggcg	1860
gctacaaata	ttacacttca	taattcgaaa	gagttcgtgt	tggtcgttct	atagcgctgc	1920
tcagtagaag	gtgaaaatgt	gataggatca	gggtgcttga	aaacaggcca	ggaaaaccga	1980
gccttgtgtg	ttgtacaggt	gttgggataa	ataccccggg	aatcattaat	aaggattttc	2040
taagcaatca	tccgaaagaa	cgccgccgga	tgactgagg	acacagctca	agagagcagt	2100
ggtcataatg	tataaccaag	ggaaagtttc	atatgaaacg	ctagaccatg	aatgattcgc	2160

cacagccaca ttctcctctt aaatcgtgcg ttagcaaaag gaacaagcaa gctccggtta 2220
aggaggacac tactgatat taggggttgcg aaacacgaat ctgcgctca atttatcttc 2280
ttgccagtcc atttactgc caataatact gaaaagggcc ttgctgtcaa tcagaacctt 2340
tacgccgtcc tgctcgacga cctcgtcaaa agtgccctggc ttatcgacat attctaggtg 2400
ataagcgaga ccggagcagc cacgattctt gacaccaact cggataagcc tcggctcagg 2460
ctgcgacaca tncctccgaa gctgttcgac ggcaataggc gtcagtttca tagccgcctt 2520
gcaggccgga gcttcctgcg aggtttctcg gcgggtttcg aggtggtggg cgtggattca 2580
acgggcttcg acttctgggg ctctccctgg ttgacatctg cttttagctc agtgttctgt 2640
atctgtgagt tacgttgggc aggttcgcgg taatggacaa agtcggcggc gacagaggaa 2700
tcctttgctc caggactggg cgaaattggg aaagaagaag gcaacgtatg aggtcggtag 2760
gccgttgctg tctgcatatc gcgcttcgac gaccgatgag cgttcccata tgaagagaag 2820
agacggaat ttggcgccat gcgtatgcta ggaggctgct tcaggcagcg caagaaggcg 2880
gatgatgtca ccgaatattg catcgttggg ttgcagagcg acatggtgtg tgaagacaat 2940
tgatggtggc agacaaatct atgatgtgag ggaagatggc gtatctatcg ggtttttgtt 3000
ttcgttctat aagacaagtt gatatttaag gcgaagtagg ctgagtgact cggtagcagt 3060
tcgtgttctt tagtggtttg gaggcggaaa agttcccagc agcagttggc ggcggaatcg 3120
gttaaaacgg ggcagtcgcc agtcagagta accgggtgcg ccaatcacca ttaaggtgtt 3180
tctacacagg atggcgccac tcaactatgct atctcctgag aacttagctg acaaccattt 3240
tggtaatcac gacactcgga accaagtgcg ctttaatcct tcatcactac acccagcttc 3300
tagcctcttc tttgggagat gtgtctatat agctcgcttc tgaagacggt ttatgagcca 3360
cccgccctgc aactcagagc ataaaattag taagcatcat gtgacttggg atgactaatg 3420
ctattgagaa gtgccaagat gtggcctgaa ttcaagccac atgtaaggct gggtcggcca 3480
tgtcacatgt ggccgctctg aggaattaca cggttggtga gacagctcga attgagctgg 3540
atggagtcaa agacgagata gcttcctcag tattcattgt catcgctcct catcattcat 3600
catcgccatt tcgtgcaatg ctggctgcgg acgatgtcta ccatcatgga atccccctta 3660
acgcagcaaa gtagaccga aacctttaag ccaaagttg ttcagctcta tgagaatcta 3720
ttccaagtac catcccagtc gccgctgaaa cgctacataa gacctatact aatcaattta 3780

tagagttcag attacgctga accctcggag gggttttgga ggaattctt cctgctgccg 3840
cctgatcggg cccaactgaa tgccatcctg gaagctctta gtccagatga gacactcagc 3900
cttcaggtcc gtatggcttt tgatgatgga cgtatgaatt gctaacaatc tcagtcacaa 3960
actcagcagc tctttgctcg tggaatccgg gaggtgcct ccggatccag cccggtgaac 4020
tcttatgctc tgcaggtatg tgaccctaca tgaaagatgt cgtccggttt ctaaggcaga 4080
cgcagacctt gacggtcttc ttagcctgta ttcttaaaaa gaagtacacc aaccctagct 4140
ccgacatcat tactgttctg gcaggtctcg acaaagttga ccaggtcata tccaatttcg 4200
ttgccgtctt ggacagcatc atccgcagcg gtacgaacag tgagcatttg tcgttccttt 4260
gcaacattga ctataagcta atactccgc agatgatatt cgattcatgg ccattaggac 4320
agctattgct atgacgagtg gagcctataa gacgagccta gtatcgact ttacacatcg 4380
ggatctattc ctttcaatta tgaaagttgg tagtccattt acaccgatga catcttccaa 4440
cagtgtgcaa atgctgacaa aactacttca agcttgtgca tgagtcggag tcaccgatgc 4500
aagtcttga gcctttctta ctactgggac tgcttgccaa ctacaacaaa tttgagttcc 4560
agaaccata tcaactgcgg ctcgatgatt ttgtaaatga aacaagcatc caaaagatca 4620
ttaaaggcgt gggctctctca tgtggtgctt taaggaacgg ctatgtggcg gtacaggacg 4680
atctccctga gggctggacc ctgatgggaa cattgatgta ttttggactg ggtgtgctgg 4740
caccaggcag aaaagagaag cctactctc ctccgccga ggaggcaaaa gagatgtttg 4800
cggctttgta tgtaaatec ttgcaccact acatcgatc tttgctaatt agattagacc 4860
cgcgcaacaa gcagccatct tgctagcaac ctatgacttc accaacgcga ataagctttt 4920
tggctaccat ctaatcaatt ccccttctga taaagacact gaggagtcac ccttctcaag 4980
cttctctctc ctgacctct atctcttgca tcacgcctat cgctccacgc gcgttaggca 5040
ctacgcagag cttagccttt ttgttcttcg aattctctca gaggactcaa cttcgtgcaa 5100
gttgctctgt agcgaagaaa gcaagcgaag agtccgtctc tgcgcgcaaa ggcagcccta 5160
tcttccccct gtggcaggag acagagtgtc cgcgacagtt atcttcgaca ttacaatcga 5220
tgccatttcg cacaatcttc gacgtcgtct cgatgtccaa atatacaggt atgaggatcc 5280
tcacgtgaaa tcttgcatct ctaacctggg ttacagcca cacaattgcc atcttctctc 5340
gggttctcac ctaccttcc atgaacagga ttgcctctc ctaccactgg tccgagctct 5400

ggcgactct gctctccctc atgcgcttcc taacaacata cgtctccgat ctaaccacaa 5460
 gccacatat atcaacccta acaacatcat tagtcgacct tatcgcatte tgcgtctctt 5520
 caggtgacac cttcctcccc gacccagcct cctacgacga cctcttctac aaactcgtcg 5580
 aaacgggtcc cattatcgcc aaatttcgcg atgtttacaa tctcaagccc acctcgtcct 5640
 ccaacacccc ttcgtccctt tctaaatccg ccgatgcaaa caaggatatt cacgttgcg 5700
 ccgtcgaaac actcatctcc gtttccacac atttctatac gctcttggtc aatccaggca 5760
 cgaccagcgc tgatgcagac aaagccgcca ctaaggccaa cggatgatcaa agtcagaacc 5820
 caacaccgat tccggcggct caaaaaaaga atatgagtc gcgtgaggtc caccgtatta 5880
 ttaaacaggg gtatgatacg ttgagtattc agcctcctga aggcttgagc gcgtggacaa 5940
 gataccgcca gacggattgg aagccggact tgaagcgggc ggcacggtgc gcggtggatg 6000
 atgctacgca gctggtggcg tagtaggcta ttatctttct ctattattca aataatacta 6060
 ttcgacaatc gtcgcctcta cgcctctctc ttcgccttct aatattgttg gctggccttt 6120
 tcagtcgaaa gatcagcaat ccgctgttgg gtttactggg tagctgtata gctgtatatg 6180
 tcagatgact tcagttggag tgaaaaccaa tataaacgt gaatattcac ctttagctta 6240
 ttcttctctc ttctagctcc taagtgtctg ttgatggag gttcgcatcc tatttctgaa 6300
 tttgccattc gaataatata ttgatacaag agaaatattt aatcccagca ataggtataa 6360
 aggggcaaaa tttgtgttcc ggccatttgc tgcgagaggt gacatgattt aatagcgaaa 6420
 agagataagg acttgaggac ataaaaagac agaactgaaa agcttcaagc acatgatgat 6480
 gaagctcttc gcgagcccg tgcaggcta acaggagtca cttcaaacaa gtcgcgaggt 6540
 ggcagtccca ggagctggat tcgggacgcc gcgtgatttc tcaatgtatt cattgcttgc 6600
 ggtgacatat cgtgttgcaa aatagtgatt agaattcttg ctcagccaga tgggtgaattt 6660
 tgatagctcc tctcgaagtc ggttcgttga ttgaaggctc atatttgtct gcgcaatgag 6720
 ctcgggcatc gtggctagca gtagattagt gttacctcgt aaactacttg atttgctttg 6780
 ctggggatca taccgaaaag gcgtgtcaag tgctctgcgc catagacatc aaggggacct 6840
 ttgtctgcag tttcagattc ccacctcttg cggaggacac gatactgctc ccgttcgaat 6900
 ctatagagaa gaatcttgct aagagatttg tcaaaatagt cgcgtatacc catgaccact 6960
 tcctccagca catctacttc ggatgaacca gtgcgcttgg gtctctctc ttttaagatag 7020

tcgtccaaga	tctgattaac	cgagctcttg	gctggcaacg	ccaccacttg	ctggtttttc	7080
gtaacatttt	cccagtcate	gacgagcagc	gatttgagat	tgtctggcat	cacaattctc	7140
actgatggtc	gggtgtagaa	atgttctctc	tagataggaa	attcagcata	cgttacgcat	7200
aacgaccgac	gtggtagcgg	tggcttcaag	ccccctcact	tagcggcatt	tgtgcaggta	7260
ctgggaacgg	accttttcaa	tatcattatc	cctggcccgt	ttagtccctc	ggccaggaac	7320
agatgtttgt	ctttcctcgc	ttccacgggc	ggagctgtgg	tcagagcctc	ccttcttctt	7380
cagagaggtt	ttcgtgctct	tctggcgaag	cgcagcctcg	gcttcccgac	gaagggtggt	7440
tgccaactct	ctgttctcct	ccgtaaattt	acgaaggcga	tcttggggta	cccaatcatc	7500
ccatctgttt	cacataaagg	tcagtataag	tccgtcaaga	tttatagagg	acgcgctgcc	7560
attttcccca	ccaaggttac	gagctgccac	tcgggaagtc	aggggcgtta	ggcacaaaat	7620
cttctcccca	ataacaagag	atcacagcac	acatttgacc	aaatgcgcgt	agatttcaga	7680
gcattaatca	cggattgaag	caaataagtg	atacatagct	gttcttccag	cccttataat	7740
ggactagata	ctcatatggg	ctctttcgat	catcaggatc	tgtgtgtcga	aggtcgagaa	7800
tcttcgcctc	atagaggatc	tcatgatgaa	aacagaggac	cctctcgtcc	ttctgatagg	7860
tagtttgccc	agccggtgcc	atttcgtggg	cgataggtct	caggcaaatg	gttgaagtcc	7920
gggacgttgg	tggcagtcag	ttatcaagag	ccggaagcgt	agtgagtcgc	agacgcagct	7980
cctaacgtga	cagcacaatg	atgctgcagg	agtaagcaag	accgttaagg	ctcaatcgaa	8040
ttaatgggtg	gtcacttgat	tgcctatatt	tcgggaagat	atgacacctg	ctggagcact	8100
agctcacgcc	gaaatgcaac	aggaagcgtg	gcgtatcaca	gaagctttct	caatccgtct	8160
attggaccaa	cacgatgaag	ccaggcgata	aagggcctga	atttgcttcg	gaaggttaga	8220
tcttgggatc	agatggccag	gcaggcgttg	gcgtagactc	aagtttgcca	acacagaaga	8280
cttgacttat	tgatataatg	atcaagacca	agtacataaa	atcgagataa	atgcaagcgg	8340
gttgttctac	cagtgagttg	ttggcaggaa	gggaggagac	aggaagagaa	ggacttgccg	8400
aagaaccact	ttacgcgtgc	ctcaccaaaa	gggaaaatcg	cgaactctgg	ccggcctggc	8460
caccaaacta	ctcttctgcg	cccttcaacc	caaactcatc	ctccctttta	ttgtcattcc	8520
catctgaaaa	cctgctaatt	gcacgctagc	tttgtgttga	tactatcaat	tcccttgtgt	8580
taactctctc	tatcatcaag	ggcctctttg	gatttgcggt	caccgcagct	tctgtccaca	8640

ctgctattgt gagcgactg agaccagcct gagccatggc tccatcagaa acctccatcc 8700
 tcagcaactt cttactgtct gctgcgctct tgccgcaa atgtgtcattg aagcagttta 8760
 cagggctgtt cccaaagcgt ctgcagtcac atccgcatat cagggttctt taccgtgaac 8820
 tacagcaact gcgagagaca gacatggaca tagtcaatga aaacattgac aaagaagtcc 8880
 gtctagggga tgctcaaaag gcagaactcc ggaagtccat tgtaaaaaca ggtgttgatg 8940
 gctcaggcgc caacgaccaa cgggaaatgg acatggattt tgagttgttt ggtccaacgt 9000
 cggctggctc tgacgagcag cactcagtct caagccttct ctccgcatg gaggcggcct 9060
 gttctgatat cgagcgtgaa atagctggag tggacggaga ggcggcctct cttttgtcgg 9120
 agtcaattc tactgttggg gacctagtg acctgcgata cgggaagatg cacggctcag 9180
 ttggagccac agacgcagag gtagtcagcg aggctatccg ggccttgat aaccttgagg 9240
 acgcatgctc ccgtaagagc gctgtttaat agcttacgtc tttttggctt ccgctgtca 9300
 atttgaattc tggactgggt ctacaccact ttcaatatga acttgcccct gactcctttg 9360
 tcgcggttca aaacgataac caaccgaaac gtcagaagtc aacgatagca gagttttcca 9420
 gcccgtaat tcttcatgcg ccatattcca ttttcgagcg tagacagctc gggcggcgga 9480
 cagaatcgtg cacacattgc atcacggcgt attccaatag atgatctgat ggcaaactct 9540
 cagaatatct ctaggcaagc aatgtctcgc cgaaacaaag aaagaggacg aagggtgttg 9600
 gcgggctagg ttataaagca gtaagcacgc attttgaagg caatagagag gcttgctgcg 9660
 gcctttcctc ctgctgttta atcttcaaaa tgatacagct gaattaagat ttttatacct 9720
 tgtttataac agtgtctatg taaaaatata tatatacttg tctttgtccc atattcttta 9780
 gcatctagat gtatgatcgc cgagaccag cttgtttcag gcagtggaga cgcgctaaca 9840
 atcaacttgc cgactcgatc tccatatctg tttccagcct cgacctgtt taaagaaaac 9900
 gtcaaacagc tgagtctcgt tttcagattg cttcaacacc atatctattc tgaaccgcga 9960
 gttgacctcc aaaagctatg ccgtctattt cctccaccc ccgcgcgtcg tcacgcaaca 10020
 acgctcaciaa tcccccccc cagcttctcc aaacccctc cggcctcgcc ctctcgagc 10080
 tccaaggcac gataaatcta ccattccagg aaaatcttga cgccgagaaac gaatccaccg 10140
 attttaacag cccctccaca tacgagacc caatcgga gctcatgttt ccggactact 10200
 cgcaaaacgc gaaagacgac acgagctgga tgaaaagagc ttacctctat gttggacggg 10260

accagaggat gacaggcgaa gtcaagaaat tacccaagcc acttgcgatt attcagcggc 10320
 ggcagacgga cggcgcggac gatgcacggg aacagctaga ggttggtgaa attgtgaaat 10380
 ataagctcat attcaagaac cggccggagc cggttaatga tgtttgattg ccgggattgc 10440
 agtattaaca tctagagatg gagagaatgg gctccgctgt acagtcctgg ttcgtgatcg 10500
 atatgtctac gacaggctcg tgcaccgtac gagtcgagcc ggctcaaaat ctgttaggtt 10560
 tctatcgag catacaagaa tactcggttg atggcctgat gcgcgtgtag gcgcgaacac 10620
 agcgctccc agacctgacc gcatataagc aacaaacccc gatgaaacta cttctacgtg 10680
 cgactcagag gcatgattca aaatgtttcg gccattcatt actgcgacca tccaaaattt 10740
 acctggctc attcactcga cccggacttg actcgcgata agacttgata atccggcgtg 10800
 acgcatgtgg aaactcggag attttgcctt atctcgcgac gactcctcaa gccatcctgt 10860
 gctcagtggg gggcagcgtg gctattccgt gagccgagcg caggttcgtc ttcccggctc 10920
 tttctctaag gtggtaaagg cgcgcgagcc tacaccacac ctatccagaa caagcccggg 10980
 attaaatttc taagtgtctg aggatgggtg gtcgtctctg aatacgtgca cttcagttat 11040
 tctaggcatc ccagtgaagc tgattgatgt caggattccg cgcgcggacc gagtgtgaaga 11100
 ataccgtag cggaatatac ccgacgtctg ggattgatc cgcactatta acaataaaaa 11160
 tgacttgaaa cagcgcgtac tatgtgcttg ctaattgcat tcgtagacat cagatcagag 11220
 gtttgtaata tagaaatctt gtgctttggc tactggactc tccgcaaata tataatcatt 11280
 ctgtagcgca agaattctatg agcgttcaac atccgacgt acccgtttcc gacgaaatta 11340
 tcgggataat tccagacacc aaggcattga tcgaaattca gagccttgaa ctggagacca 11400
 ttataatagg ccagaattag taatagtaat agtgctgctc caatgtacac cagaacctct 11460
 acaccccgca cagagccagg ccgctgcctg cttactataa agtggcctct ccccttcgca 11520
 accgattacg tgcgtacagg tataccacga ttatcttctc actatccctc tcccttcgtc 11580
 tcgcacataa aaaagtgcag cgtcctcccg tttgtaatcg tcgatacaca acatcaacat 11640
 caactccgcc aaccaatcc tgcacaacaa tggcccccac cgagcgcac acccttttca 11700
 agatccccga cgaagcagcc cgagatcgtg tgctggagca gtacaaggct cttgcgaaga 11760
 cggctgttaa ggtgcgtaaa gccagttggc ttttgtttgc aactgagtaa cccatccgcc 11820
 tccctaggac ggcaaaccgt acattgtctc cgccgcagca ggaccgacga tcccggaccc 11880

gcgatgtaaa ggtttcaatc tctccgttaa gacaacgttc gcatcgctgg aggatatgaa 11940
 gtactatgat acagagtgtg aggcgcacaa ggcgttgaag gcggttgccg cgccgggtgaa 12000
 ggaggatgtt ttgacgactt acttcgagag tgtgctttga gttggtagta tattttgtta 12060
 cttcgttacg tatacctctt gatataaatg gtataatttc tatcaacgat cgaatgctac 12120
 ttaagtatgg tatggagaga ctattcgtga tattcatttg tggccactgc gcattccttg 12180
 tgactccgct atgtgaaagg aagggttggg tgtgttttaa gttaaacagg agagaggaaa 12240
 gatacatggc atttgtaacg catctgcggc gttgctagac gacaccgttg ccatatgggc 12300
 ggtcaaatag gatacaaaac atgaacatga cacagtaacg tctaggtctc atccaggagt 12360
 accatagacc aatatct 12377

<210> 3684
 <211> 4643
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3684

cagcaggaaa ctacgtgttc atgctgcggc acggtgtttc ctacctgcgc ctctgagaac 60
 caatctgaac tgacctcgcc gatcgtgtgg cacagcgata aaggtgtcag atgggtgggac 120
 ccattgtttc gaatgcttcg aaaagaaaaa taaaaaaaat ctttggcgta tgccgctgcg 180
 agaggctaatt ttcgtcgctg ccttgatat ttccgatcta tacacagcat cggacgcaac 240
 tgcggtcttt gtggatggca tccgattaga ccagaacgca acctttcttg gtgagtgcac 300
 gacttgtcga ggggtgtacgt tctttgtgct tagtgtccct aagtcatttc gctccattgt 360
 tggattgggc attaccggcc aggctgactc cgtggtgtat aaaggcgggt gtgttctctg 420
 attgttcaat ggctcgaga cgaaaactac tcataaccat cagactcgct tgggcttact 480
 ccatctgaac cctctgagaa aaaaacttca gatctgcact tcttcgagag atctgggtccc 540
 acttgccgca ctatatcgtc tttttaaagg ttccatccac aaactgaaag gcatttcac 600
 aactgttgaa caatggacaa gagaagcacc aacaacaata acggcgggttc taccagggcc 660
 agcaggctct ccgctcaaga ccttgcccg taccaagccg aattgatctg gatgcacaat 720
 aggactgttc gcgaaataaa ggaagcccaa ggcacgttcc attcttatct atagtccct 780
 acagaccggt ctaatcttgc ctgttttaca cagagaagga tgcgagagaa gcagagctga 840

gagcgaagca gtcgtctcag gagactggaa aataggcaaa aagctatgag gtaactgggt 900
gaatttacgc gggcaatatg gacttgattg tgatgtgtga ccttggtccg tgtttatggc 960
ggcgtggata atgggggtact gggcggttatt tgggcactcg gcatttttca agatatccct 1020
gccagctatc gaaacatttg tttcatatcc ccttgtcgat aaatgaattg gcttctgctt 1080
tctctgtaac tacgtcaccg gcctgatctg acctatcgcg ccttccatca tggtagcgac 1140
cctcgtccaa ctcggtacgt ggcaaatcaa tacggagtag cgtattgatt tcagatcggt 1200
attcagatcg ccatcacctc gatctgactc gggtgtctta ggtccagcct gacggtagcg 1260
gcagagagca ttccaagaaa gcaaccagca gccttgaaac taagaaaatg agcacgtcac 1320
ctgcatgaat cgggcttcat cccggttcgc ccagcttgaa tctctgcatg acgtctgtcg 1380
tttcaactggc gatggtcatt atactagtct atattccagg tctgggcgca ctaccttacc 1440
cacggtcctt ctggttgggt gcattcttgg actaggattc ctccatcacg cgaggccatt 1500
aacatgggag cgaacttagg ctgagataga acatcaccta tcccaggttc cacgtatcta 1560
acattgaaac aatccggttg acccctcaga ctggaaaaag caagtcaacc ccatagacca 1620
tctatttagc ctcaactttc cggtttctac aattggcctg ttgcagtcca gagaggctag 1680
gagccactgg gttaactgat gctgatttgc gcaacatgca tcagactcca cgtggaggcc 1740
aggagggtccc tgtcactacg cgatttattc cattatgtct agaacaagtg aacattgtat 1800
ataaactttt gggaccccgat tgagcagggt aactgtccct tctcatacgc ggatggaacc 1860
tccgtgggccc cagcaggcac tgcagcttta caaatcctca gcaccattct gcattggagt 1920
ttgaggctaa cgcggcatcc tttgagctac ccgataattc acacaagttt gatcgttggt 1980
cgactagtga ctaggaatcg attcgacagt tctgattctc agttgcggat acgggatctc 2040
atgtgctcct cggatttcca cgacttcaat cagtgggtta aactgctga gaccgtaagg 2100
tcaatacact atcaatcagg gcgcctaggc ttctgccttg tcgactgata gctaacacac 2160
caggcccacg aagtgcgaag aagtatccag gtccaaggac tcgttggagc ttgtcaacct 2220
cgccatgcag atatccattt actatggcat gctctatctg gactctatgc atgaggccgg 2280
ttgctaattg acttttgaaa gagcaaggct ggctgtcgt agcgactaat taataagcta 2340
tgctattcct tgaaactaga ctagcgcgta ttgccttgca ttcccacgaa cctacagaca 2400
gctcatggct acaccgacag tgccacggcc acccagcgag tgattttcgt ctggttgaat 2460

cagggagact taaacagatc gttgagcgct aatcaaacia gagcgttgat ttccacgaat 2520
tgctaaataa ataatctgga gaaaaggtga ctgccaaatc tatcaatcgc ctggacggtc 2580
tattcaatct ggaccctgca ttctgcacgc tccccataaa ccctgggcta agcatttgct 2640
ctaactctgc tgcacgcgct cagaccgaca tcccatccgc actctcggca cttgtgtctc 2700
atacattggc tgattggatg cattccaatg tgccttgctt ggctagacca gcctttcttg 2760
taacccttg accaattagc tatcctcgcc gagctcccat cgaagagagc gcaaggactg 2820
gctagcatta ttgttaacta ttgcatagta cctgacaaag cttgactatc aaatgcgacg 2880
tagatatggt agctaggctg cttataactg cgcattgacg cgagctagggt tcaatagaat 2940
cctatggcga tcagtgaagt ctatgttcta ccctgatgt ggtgatacat agtagttcta 3000
agaccagct gaccctatat tgctagacag ccttaacgtt cttcggattt ccaaaagaag 3060
acaagataac aggaccacct atcctcttca cttggtctac atccagatcg caaaataaca 3120
acagattttt cgtcactgga tcgcaaagt ggcgcgagag aacacacagt ctttaagcacc 3180
tcgtaagcca aatatggtgc caagtgtca gcttctaat gaggaagctc aaggctgcag 3240
tatctcaacg cttgttacta ccgcaagcac cagatatatg catgctaaca gttttggcag 3300
gactaatcca gacatcgtct catggaacca agtgggacga atgtatcgag tcttttatcc 3360
ctactttcac cgagtattgc tcaacaagct aggtacctag gcgcggctct aaggagcgca 3420
agttggaagc attgccttct gctttagaaa gtaacaatac tgtatttaca gaccgaacgt 3480
agtgttaatg ttgagaagtt atttttttgt gtagatcgca atccatgtag ttgggcatct 3540
aaccagctga tctactgtac cggcatctaa cctgccatcg agatgcaaac accgacagct 3600
ggtttgaaag agcagtgcg gtattttcta cgtccaacia atcgtacttc gtcggccttt 3660
gtagagatgc aagggtgggca gtcaggtgac agaactctta caggtgctag atcatagctg 3720
taggagctag atattcgat ccgacgcacc cgagttgctc aacttctcga gtatcccatc 3780
ggtggcccat catttgacct cctttaagaa atgcatgact tcgccgcca aacgtaaatac 3840
gcaagtctcc gtcaggcgac ggcccagcct cagctccaag ctacagcttcg aggctagcag 3900
cagtcttctt gtacttctta aggccattaa tgcagtacgc gcgaacaaca accagttctt 3960
acgcatattt ctaaagtaag gcaagaagat gacttctcgg tctcttagac attgaaaaca 4020
aagcagaaaa gatctgttgt agatggtttt gggttgagaa atataaatat aattataatt 4080

atgattatat atattatcac acagcctccg tatcagtgtg tctgaaccag tctgtgactt 4140
 tcggctaata tggaatcttc agtcacctgc gcagtagcag caagcttggc agcggcctga 4200
 aggccgcacg cgcaccctga tcaggatggt gaactgttga gtcactgttg gtttgaacca 4260
 gttcagcact tcaaccacgc tatggacgga gtcggagacg gagacggacg gatgaaaatc 4320
 catccggaga gatcagaaga aagctagtgt ctggaagctt tacctaaaca ggaaggagca 4380
 cgtggagtcc aggttcttta tgccataaag aaaacataac ataatacaaca gatgcacaga 4440
 ggccttgtag atagcaactc cataaagatc atggtagatg ttctgcccac gagataatgc 4500
 agactgcagt gttcgtgcat atctggcggt ctagcaaacc agcatctgct gagattacat 4560
 ctgattcctt tgtttgaaaa gaaaaagcct cggctgagat cactgatcgt cctaagattc 4620
 cccgctctct gggctctcag aca 4643

<210> 3685
 <211> 2706
 <212> DNA
 <213> Aspergillus nidulans

<400> 3685

gaaattat taaattagga acgatatgaa aatgttatac ggtggaggga gagggccaag 60
 aagtgttaa aaaaaatgca ttgaccagaa ggggggggac actagagaag gtcaaaaaat 120
 gggggcaaaa acacttgcaa agggagcttt caattttttc aagggtttta gagtgcagca 180
 ctcatggata atccaaaaaa ggagcaaaac ccctcaaag taacaacgct aaacctcaaa 240
 cttggacttt tcaaatggca aaataagtct ccagtccggg gaattgtggt ttttaagtacc 300
 tcttaaaact ccggagggca caagaacatc ctcatgtgta agcaccgaag tccccagtg 360
 aaaccaaaag ccctcttgca ttgggtatcc ggcaagatct caacagcatc gtgcggtct 420
 gcatgcatgg ggctcatgaa ccatcacgga tgatacgcg cgatggggat cagccctaga 480
 tcgaacggtc cccgatactc acctacttgc ttgaaagcag ggcacgaggg ataattatgt 540
 tcaggactgt ggtcgtcaac atgatctgga agtgctggca ccgatcgata ccccgatatc 600
 ctgaatggag cgctcttgta agcagttaca caagtggcgc aatgattgaa gatcgcttac 660
 ccagcaaaat atactttgcg gcctccggac tcaacgtacc acgaggccca gagtgttttg 720
 catcgggtcaa acggtgttcg ggcactgaaa tgctggcaag gcaagcagcc aattcgagcg 780

gtgatgtccg ccagctttga gtcagtattt ccatcagctg ggtctacctg agtggcagac 840
 tttgttgag aaagcagtat atcgcgttca tcccaccagt cgagttctgt tgcattcggg 900
 atgccggttt tgtcaaacca ttctttgtta cccagaggaa caaagaaatg gcagttcggg 960
 tgtcgcttat ggatttctcg tacagttgga agggacaaat gatcgtaatg gttatgagag 1020
 atcacaacgg catcaatagt gggaatatcc atgatctgac aaggcggctc ggtataacgc 1080
 tttggtccta gccaaagagaa tggggagcat cgatcctcaa aaaccggatc aaataggacc 1140
 cggagcccac tcgggaactc gacataataa caagcgtgtc ctaaccaagt tgctcgaga 1200
 gtaggtgttt cacgactagg caaaaacact ggcttatgta ccgggacggg tggaggagtc 1260
 gtatcagggc gattggcctt tccactcaac atgcgcctga attctgtcag atccgaaaat 1320
 attcaaataa gccaatgctg gactcaccac aaaatctgtg tttgcttgtc gaaaggtgaa 1380
 gtgaacgagc tgctgtgatc agtatagggt ttaagccgag ccataattcg acctacttcc 1440
 atggattgtc aaagccattt ttaacatggg gcgcttttgc actggcatca tcaggagcag 1500
 aagaagcggg agaggcggac agagtcagag cgtagagagc agccgcagta gatgaggcca 1560
 ttctgaagtt ggtagcagtg aaggctcgtg ggaaaggaga tgccttgctg gtaaagcgag 1620
 agctgaacca gcgtcgcgta aatgggtggc tgccggtttt gcgccaaagt taccagctta 1680
 tataggtagg aagggagggg ttaggcacgg ggtataatat gtcctttgctg ttctgtatgg 1740
 atgatgaaga gcttcacctc atcttacagc tggatcagcc aaaaaaaaaa gtggctgatg 1800
 gtcattctta gccggatctt atgcttgctt atagccgtta tccccgagca atcattactc 1860
 cggacacggg caacaagttt tcaattcacc cgaatgacat tggcatcaac aatgttatcc 1920
 atccgtcaga ctccaggctg caggctccgc agcatcgtat aggctctaag cgtaagctgc 1980
 ctacctatag ttcacgtgta agtagtcgta ggccccagga acagagtctt gttcaaaggc 2040
 acagcgtaga gctaggtaga tcggcccgtg ttagcgccga ccgcggatgg ctaatccaga 2100
 ttgggagtct cttagagagt tcaacacaac taaggcctcg actccgaatg atctttcgat 2160
 gactggtacg gatcactactg gatcgatata tccagggcta ccagcgctg gagattcaat 2220
 tgtccagcga agaaatgagg ccatccaggc cgcaacgcag cagccgactg cggacgaggg 2280
 gatgctgtct caacttacia gcaacccttt tttcacagcg gtgaggaccc caaaaatgcg 2340
 agtttggtta gtgttaggat aaatactgat ggcttatcct tattattagg gatttggcct 2400

tgcagggctc ggtgtcggcg caaggcttgc ccagcaaggt cttcggcgtg gcgcggatct 2460
 gattcggaga cggatgctca tcgatgtcga gatcacacat aaggacgatt catatccatg 2520
 gtttctgaat tggatgacac aatatcaaca gtcgcagctc agcgcacatc ggtcccaagc 2580
 cagcgggtct ggtttcgtgg actcgtcttt gaccaaactc acgcccagga tgcgccaact 2640
 ttcagtcgat actaagacag tcaaacactc gaacggcgcc ataaacaccc atttcacatt 2700
 ggtcct 2706

<210> 3686
 <211> 8089
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3686
 cttgtaggtc tcttggataa gattgaaacc ttggatctta gttaggtcgg ccatggtgag 60
 cttgtcaggt tgattggggc tgtcagatag tgaggccaa ccttcccttt atagaatgaa 120
 ccgcctggag agtacgtgcc ggatcccttc ggagtgaacg actttcgcga gtcaccaat 180
 caccttttga gttgtcagat attgcatcgt ttccgtgctt tcatctagcc aatcatcaat 240
 ctttggcacg ggagtctgca atgcaaagc atccagctg gacaacctat tggataatat 300
 gtcattgata ttgatcctgg accctacggc taaacactag aacttggcac ttccgcactt 360
 gtaatatgaa gaacgctact aaagatgccg ggctttgcac accgtgttgt ctacggcgct 420
 ctgccaggcc cgagataaat cgttggggta aatggcccct ctgccaacgt aggccgctcc 480
 accaaaaagc ataaaatcta tttgatggct gcgataaata cgccgaaggg tgaactgagt 540
 tgtttgaagg ttgattcctc tctctgaata tggaccttat cgtggagaaa gagatgcatg 600
 gaacttcgtc actatgattg gggcacagcg cggttgagag tctcaatgtc cggtgagggg 660
 cgagagaata ataactgaac aggttgaaag ttcgcattcc caataatgta tgtcgcaccc 720
 tatctggaag gtggagccta gtacgggaga cacctaccgg tccgtgagag ttcttgagat 780
 agccgtagat catatcttct agacagtgtg aagaaccatc agttttgttt gtgaccggct 840
 gaatgggggt gatcttttga tgaccacga tcataagaga gaggaaaggc caataagtgc 900
 gtatgcaaac tgggcgacga ctgaagcatg ctccagttga ggataaaaaa atcctctaga 960
 atatctggtt actgtaggaa cagagatat gtcagtaata ttaattttct atgtgctata 1020

atattcgctt agtgacttgt ttaccgatgc gaggaggaga tttcgcactc gtagatgata 1080
tatgcgacag actggtttct tttgcatggt ttccgcaggc caagattcct gtattcacgc 1140
caatcgagcc agcaaaaact tcggtttcat cgcacgggc gacgcagctc cgatttagag 1200
accagtgcg cctctgcctt ggccaatgag gagagtgcgc tgcgcaaac cgaatcacca 1260
cataatccac acatagctgt tggcttcggt ccatgatgct acagatccga cacagtaatc 1320
gttgctatgg gaaggcatca ggttgaccct gtgcggtacg gctttgaggc ggcgcccgtt 1380
ggaagatacc cctgctcggg cacgtcaaact ccgcagagtc tcaccttga tccgcatctg 1440
gatgcagatt agcactgtag cggaagccga ggggactcgt caagagatct gcgggccgtc 1500
caggatgatc gtcatgcaag gggcggaagc cagcgaacat ggacgggaga cgacgcgata 1560
gggtcgatct ctctctctg cttgaagcag cggacatcct tgcgcaaac gtgccgtaac 1620
cccatttgtc gctatcaggg gtatagcaca tagcagatac tgggtgcagct gcagcacggt 1680
gtcttgggtg cctttgaaag caacggggcc gctttcttga ctcgatagga ggacgctgat 1740
taccctggg gtatcaagag gagatactgc gtgtgagaaa gcgccggcag atgacttgca 1800
cgagcctgta tccactccca ctgtcaccg aacggccaaa ggtgtatagc ctgcgccgat 1860
attgaccgga ttttcctgta ctctcatgca aataggtcgc gcagagtgt gaaacagctg 1920
cattatgagg ctggaagca agcggtcgca gcctgggtct ggtagaccgg gtgcgaagta 1980
tgctgggcgt cgatttgcat tgagtcagaa tgtgaagagt aaggccggat acttttgccg 2040
acgttcgca ggatgctgtg gggagagctg ataatggcag ggttgacggt ggagatagct 2100
gacaggctgc ataaaatata cccttgccct gacattttgc ccttgacaag aatgcatgcg 2160
tatgtcattc gggtagcgta gagcaaggct ctcatgtgc gttcgtggac gcaacagcgc 2220
agacatcagt ctgaacacca actggaagga attgcacagg ctgtgttggt gcgcgaatga 2280
aggcgttggt tctgagctgg agtccctct gcagaaatag agtctgggca gttggatata 2340
gatcgccac gttcaatgac aggtcacgac accaccgcta tggagacaaa aattacttga 2400
accttgcccc gatcttcccc gaccaggaaa tatgccagtt tgccgccccaa tagcctagac 2460
agtcaacgga cactttctgc tgggccaata ttagccgaag accagtcag tggagtggcc 2520
gaaggttctc gcggatgcga ggtaactggg tcgcggagat ggaatggcaa acagtagcag 2580
ccaaggcct agaattgtgc ttcgttcaga cagagactgg gaggaaaagc cttgtcaaaa 2640

caggaaaata ccgcgagtga ccggcactgg tactcgtggc agctagtatg cacttcatct 2700
attatgctct ccgtcaacct tctgcaacac gccaccggga ttgagcagtg aaaaaataag 2760
cgggaggagc gggaggcagg gtagcgggca cattagctat tgtttctggc tcgttcaaatt 2820
ggacttttca tggttatagt gttacggctt cctccaagaa tgtcagcccg tctgcgagca 2880
gagaactggg gaacatgcgc cagcaggcct aggtaaaaat catagttaaa gacttatcta 2940
gctgactagt ctgtaaactg ggagtaacac catagcgcca tttatcgct caacaagact 3000
gctactgctt ttcattatcc agtggcacca aacagattaa accgggtcac atgcacccac 3060
cttaagcact aaaatggatc atctgatgtc ccaggccctg gtggacactt cgactggact 3120
ctgggcggga tttcaaagta tgaggggggt cgtctgttcc gtccctcgcc cctgatatac 3180
gatctccgtt cccaatcggg aagtcctgaa gaacggggcc gggaatcgag gatcagcctc 3240
cgtggggaaa tgaggctagt cctgcatgcc agttcttcag ggcatcagt ggcggcctgg 3300
gccagtgcatt ttacgggatt ttcattatctg ggcacgaatc atggtcaagg cgaaggatca 3360
tgaagtccct tggccatgga attcctccat acacctcatg tatacaatgg cgacagcgga 3420
taccggctgc ataaacagga taatagcggg attcaactgc atatggattc ttcattgaca 3480
aggaatcccg ttaatggata tacaatcgct gggaacgagt gaggtataaa tcagaggcca 3540
tgtccaggga gggtttctcc ataaccacaa ctgaaacata cttcaaattg acattgagcc 3600
agaacaatga aaggcgccgg ctctgcttcc tttctcctaa cccttctcag cagcatcacc 3660
cgcacctccg ccacagggtg tgtctccaac atcgtgatca acggcgtctc gtaccggggc 3720
tggctcccat cccaagacct ctacagcccc tctccacca ttggagtcgg ctgggaaacc 3780
cccaatctga gcaacggctt cgttaccccc gaagaagcct ccaccgatgc gattatctgt 3840
cataaggagg caaccccagc ccgcgggcac gccactgtcg cagcaggaga caagatttac 3900
atccagtggc agcctatccc gtggcctgac tcacatcacg gcccggtgtt ggactatctc 3960
gccccctgca atggggactg ccagacagtc gacaagaaca gcctcgagtt cttcaagatc 4020
tccggcgtcg gcctgattga cggctcctct ccgccgggct actgggcgga tgatgagctg 4080
atcgagaacg gaaacggatg gctcgtccag atccccgccg atatcaagcc gggaaattac 4140
gtgctccggc acgagatcat ccgctgcac ggtgcgggta gccagaacgg ggcacaactg 4200
taccgcgagt gcttcaatct gaagatcacc gggtcgggca ctgctgagcc ggccggtgtt 4260